

APPENDIX J



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 04, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705229

Analytical Environmental Services, Inc. received 4 samples on May 3, 2017 10:10 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: APCS-18
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 2:25:00 PM
Lab ID: 1705229-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.80		mg/Kg-dry	241933	5	05/03/2017 18:25	JR
Barium	72.4	2.93		mg/Kg-dry	241933	5	05/03/2017 18:25	JR
Beryllium	0.63	0.29		mg/Kg-dry	241933	5	05/03/2017 18:25	JR
PERCENT MOISTURE D2216								
Percent Moisture	29.3	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: APCS-19
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 2:30:00 PM
Lab ID: 1705229-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	8.51	7.36		mg/Kg-dry	241933	5	05/03/2017 18:31	JR
Barium	730	2.45		mg/Kg-dry	241933	5	05/03/2017 18:31	JR
Beryllium	0.82	0.24		mg/Kg-dry	241933	5	05/03/2017 18:31	JR
PERCENT MOISTURE D2216								
Percent Moisture	28.8	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-01
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 3:45:00 PM
Lab ID: 1705229-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.44		mg/Kg-dry	241933	5	05/03/2017 18:37	JR
Barium	32.9	1.81		mg/Kg-dry	241933	5	05/03/2017 18:37	JR
Beryllium	0.19	0.18		mg/Kg-dry	241933	5	05/03/2017 18:37	JR
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-02
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 3:50:00 PM
Lab ID: 1705229-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.51		mg/Kg-dry	241933	5	05/03/2017 18:43	JR
Barium	13.7	1.84		mg/Kg-dry	241933	5	05/03/2017 18:43	JR
Beryllium	BRL	0.04		mg/Kg-dry	241933	5	05/03/2017 18:43	JR
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705229

ANALYTICAL QC SUMMARY REPORT

BatchID: 241933

Sample ID: MB-241933	Client ID:	Units: ug/Kg	Prep Date: 05/02/2017	Run No: 342046							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492483							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241933	Client ID:	Units: ug/Kg	Prep Date: 05/02/2017	Run No: 342046							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492484							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4375	1500	5000	75.50	86.0	80	120				
Barium	5160	500	5000	431.3	94.6	80	120				
Beryllium	5585	50.0	5000		112	80	120				

Sample ID: 1705080-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/02/2017	Run No: 342046							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492486							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	19320	6830	4556	13950	118	75	125				
Barium	216100	2280	4556	202700	295	75	125				S
Beryllium	6693	228	4556	1319	118	75	125				

Sample ID: 1705080-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/02/2017	Run No: 342046							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492487							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	17230	6840	4561	13950	71.9	75	125	19320	11.4	20	S
Barium	197700	2280	4561	202700	-108	75	125	216100	8.89	20	S
Beryllium	6668	228	4561	1319	117	75	125	6693	0.380	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 05, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705355

Analytical Environmental Services, Inc. received 8 samples on 5/4/2017 10:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-20
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 10:30:00 AM
Lab ID: 1705355-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.28		mg/Kg-dry	241300	1	05/04/2017 20:26	JS
Barium	24.1	0.35		mg/Kg-dry	241300	1	05/04/2017 20:26	JS
Beryllium	0.09	0.04		mg/Kg-dry	241300	1	05/04/2017 20:26	JS
PERCENT MOISTURE D2216								
Percent Moisture	17.7	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-21
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 10:35:00 AM
Lab ID: 1705355-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	9.38	7.91		mg/Kg-dry	241300	1	05/04/2017 20:32	JS
Barium	48.8	0.53		mg/Kg-dry	241300	1	05/04/2017 20:32	JS
Beryllium	0.26	0.05		mg/Kg-dry	241300	1	05/04/2017 20:32	JS
PERCENT MOISTURE D2216								
Percent Moisture	21.3	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-22
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 3:18:00 PM
Lab ID: 1705355-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.04		mg/Kg-dry	241300	1	05/04/2017 20:38	JS
Barium	6.99	0.40		mg/Kg-dry	241300	1	05/04/2017 20:38	JS
Beryllium	0.05	0.04		mg/Kg-dry	241300	1	05/04/2017 20:38	JS
PERCENT MOISTURE D2216								
Percent Moisture	13.9	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-23
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 3:25:00 PM
Lab ID: 1705355-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	17.0	8.18		mg/Kg-dry	241300	1	05/04/2017 20:45	JS
Barium	53.3	0.55		mg/Kg-dry	241300	1	05/04/2017 20:45	JS
Beryllium	0.36	0.05		mg/Kg-dry	241300	1	05/04/2017 20:45	JS
PERCENT MOISTURE D2216								
Percent Moisture	11.0	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-03
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 10:50:00 AM
Lab ID: 1705355-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.39		mg/Kg-dry	241300	1	05/04/2017 20:51	JS
Barium	25.4	0.49		mg/Kg-dry	241300	1	05/04/2017 20:51	JS
Beryllium	0.18	0.05		mg/Kg-dry	241300	1	05/04/2017 20:51	JS
PERCENT MOISTURE D2216								
Percent Moisture	6.14	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-04
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 1:50:00 PM
Lab ID: 1705355-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.75		mg/Kg-dry	241300	1	05/04/2017 20:57	JS
Barium	55.2	0.45		mg/Kg-dry	241300	1	05/04/2017 20:57	JS
Beryllium	0.11	0.04		mg/Kg-dry	241300	1	05/04/2017 20:57	JS
PERCENT MOISTURE D2216								
Percent Moisture	8.51	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-05
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 1:55:00 PM
Lab ID: 1705355-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.96		mg/Kg-dry	241300	1	05/04/2017 21:03	JS
Barium	75.1	0.40		mg/Kg-dry	241300	1	05/04/2017 21:03	JS
Beryllium	0.12	0.04		mg/Kg-dry	241300	1	05/04/2017 21:03	JS
PERCENT MOISTURE D2216								
Percent Moisture	11.4	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-06
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 2:00:00 PM
Lab ID: 1705355-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.93		mg/Kg-dry	241300	1	05/04/2017 21:09	JS
Barium	69.8	0.53		mg/Kg-dry	241300	1	05/04/2017 21:09	JS
Beryllium	0.10	0.05		mg/Kg-dry	241300	1	05/04/2017 21:09	JS
PERCENT MOISTURE D2216								
Percent Moisture	8.35	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705355

ANALYTICAL QC SUMMARY REPORT

BatchID: 241300

Sample ID: MB-241300	Client ID:	Units: ug/Kg	Prep Date: 05/04/2017	Run No: 342266							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498339							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241300	Client ID:	Units: ug/Kg	Prep Date: 05/04/2017	Run No: 342266							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498340							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4294	1500	5000	113.6	83.6	80	120				
Barium	5010	500	5000		100	80	120				
Beryllium	5035	50.0	5000		101	80	120				

Sample ID: 1705354-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 05/04/2017	Run No: 342266							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498343							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	10.19	5.83	3.885	8.170	51.9	75	125				S
Barium	146.3	1.94	3.885	141.6	122	75	125				
Beryllium	5.206	0.19	3.885	0.8569	112	75	125				

Sample ID: 1705354-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 05/04/2017	Run No: 342266							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498344							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	12.14	5.81	3.875	8.170	102	75	125	12.14	0	20	
Barium	142.4	1.94	3.875	141.6	19.8	75	125	142.4	0	20	S
Beryllium	5.154	0.19	3.875	0.8569	111	75	125	5.154	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1703R09

Date: 3/29/17 Page 1 of 1

Form containing company information (Georgia Power Company), sample details (55-02, APC5-05, ASTCS-06, etc.), analysis requested, preservation codes, and receipt information.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-05
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:15:00 PM
Lab ID: 1703R09-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.13		mg/Kg-dry	240283	1	03/31/2017 01:40	JR
Barium	14.8	0.48		mg/Kg-dry	240283	1	03/31/2017 18:44	JS
Beryllium	0.06	0.05		mg/Kg-dry	240283	1	03/31/2017 18:44	JS
PERCENT MOISTURE D2216								
Percent Moisture	8.14	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



March 29, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1703P02

Analytical Environmental Services, Inc. received 9 samples on 3/29/2017 7:50:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Client: Georgia Power Company
Project: Plant Kraft Excavation
Lab ID: 1703P02

Case Narrative

Metals Analysis by Method 6020B:

Due to sample matrix, samples 1703P02-001C, 002C, 003C required dilution during analysis resulting in elevated reporting limits for Beryllium.

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-01
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:00:00 PM
Lab ID: 1703P02-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.19		mg/Kg-dry	240148	5	03/29/2017 16:19	JS
Barium	7.28	2.40		mg/Kg-dry	240148	5	03/29/2017 16:19	JS
Beryllium	BRL	0.12		mg/Kg-dry	240148	5	03/29/2017 16:19	JS
PERCENT MOISTURE D2216								
Percent Moisture	6.39	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-02
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:02:00 PM
Lab ID: 1703P02-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.13		mg/Kg-dry	240148	5	03/29/2017 16:25	JS
Barium	10.9	2.04		mg/Kg-dry	240148	5	03/29/2017 16:25	JS
Beryllium	BRL	0.10		mg/Kg-dry	240148	5	03/29/2017 16:25	JS
PERCENT MOISTURE D2216								
Percent Moisture	5.66	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-03
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:04:00 PM
Lab ID: 1703P02-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.65		mg/Kg-dry	240148	5	03/29/2017 16:31	JS
Barium	15.4	1.88		mg/Kg-dry	240148	5	03/29/2017 16:31	JS
Beryllium	BRL	0.09		mg/Kg-dry	240148	5	03/29/2017 16:31	JS
PERCENT MOISTURE D2216								
Percent Moisture	10.1	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-04
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:08:00 PM
Lab ID: 1703P02-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.51		mg/Kg-dry	240148	5	03/29/2017 17:11	JS
Barium	45.2	2.17		mg/Kg-dry	240148	5	03/29/2017 17:11	JS
Beryllium	0.19	0.11		mg/Kg-dry	240148	5	03/29/2017 18:03	JS
PERCENT MOISTURE D2216								
Percent Moisture	15.4	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-01
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:30:00 PM
Lab ID: 1703P02-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.87		mg/Kg-dry	240148	5	03/29/2017 17:17	JS
Barium	50.3	1.96		mg/Kg-dry	240148	5	03/29/2017 17:17	JS
Beryllium	0.19	0.10		mg/Kg-dry	240148	5	03/29/2017 17:17	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	240119	1	03/29/2017 11:40	RF
Surr: Dioctylphthalate	80.3	54.5-121		%REC	240119	1	03/29/2017 11:40	RF
PERCENT MOISTURE D2216								
Percent Moisture	11.0	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-02
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:32:00 PM
Lab ID: 1703P02-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.71		mg/Kg-dry	240148	5	03/29/2017 17:24	JS
Barium	27.3	2.57		mg/Kg-dry	240148	5	03/29/2017 17:24	JS
Beryllium	0.27	0.13		mg/Kg-dry	240148	5	03/29/2017 17:24	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	44	8.1		mg/Kg-dry	240119	1	03/29/2017 13:12	RF
Surr: Dioctylphthalate	94.5	54.5-121		%REC	240119	1	03/29/2017 13:12	RF
PERCENT MOISTURE D2216								
Percent Moisture	17.4	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-03
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:34:00 PM
Lab ID: 1703P02-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	11.6	6.07		mg/Kg-dry	240148	5	03/29/2017 17:30	JS
Barium	38.8	2.02		mg/Kg-dry	240148	5	03/29/2017 17:30	JS
Beryllium	0.25	0.10		mg/Kg-dry	240148	5	03/29/2017 17:30	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	240119	1	03/29/2017 12:03	RF
Surr: Dioctylphthalate	87.8	54.5-121		%REC	240119	1	03/29/2017 12:03	RF
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-04
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:36:00 PM
Lab ID: 1703P02-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	9.48	6.45		mg/Kg-dry	240148	5	03/29/2017 17:36	JS
Barium	63.5	2.15		mg/Kg-dry	240148	5	03/29/2017 17:36	JS
Beryllium	0.40	0.22		mg/Kg-dry	240148	5	03/29/2017 17:36	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.1		mg/Kg-dry	240119	1	03/29/2017 12:26	RF
Surr: Dioctylphthalate	92.9	54.5-121		%REC	240119	1	03/29/2017 12:26	RF
PERCENT MOISTURE D2216								
Percent Moisture	17.2	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-05
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:38:00 PM
Lab ID: 1703P02-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.65		mg/Kg-dry	240148	5	03/29/2017 17:42	JS
Barium	33.6	2.55		mg/Kg-dry	240148	5	03/29/2017 17:42	JS
Beryllium	0.41	0.26		mg/Kg-dry	240148	5	03/29/2017 17:42	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.8		mg/Kg-dry	240119	1	03/29/2017 12:49	RF
Surr: Dioctylphthalate	82.4	54.5-121		%REC	240119	1	03/29/2017 12:49	RF
PERCENT MOISTURE D2216								
Percent Moisture	24.0	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703P02

ANALYTICAL QC SUMMARY REPORT

BatchID: 240119

Sample ID: MB-240119	Client ID:	Units: mg/Kg	Prep Date: 03/28/2017	Run No: 339430							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240119	Analysis Date: 03/28/2017	Seq No: 7425505							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.587 0 3.300 78.4 54.5 121

Sample ID: LCS-240119	Client ID:	Units: mg/Kg	Prep Date: 03/28/2017	Run No: 339430							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240119	Analysis Date: 03/28/2017	Seq No: 7425506							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 26.17 6.7 33.30 2.184 72.0 54.6 120
 Surr: Dioctylphthalate 2.772 0 3.330 83.2 54.5 121

Sample ID: 1703L09-012CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/28/2017	Run No: 339430							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240119	Analysis Date: 03/28/2017	Seq No: 7425508							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 28.52 8.0 39.53 72.1 40.6 122
 Surr: Dioctylphthalate 2.920 0 3.953 73.9 54.5 121

Sample ID: 1703L09-012CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/28/2017	Run No: 339430							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240119	Analysis Date: 03/28/2017	Seq No: 7425509							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 31.50 8.0 39.53 79.7 40.6 122 28.52 9.93 29.9
 Surr: Dioctylphthalate 3.069 0 3.953 77.6 54.5 121 2.920 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703P02

ANALYTICAL QC SUMMARY REPORT

BatchID: 240148

Sample ID: MB-240148	Client ID:	Units: ug/Kg	Prep Date: 03/28/2017	Run No: 339556							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240148	Analysis Date: 03/29/2017	Seq No: 7425834							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-240148	Client ID:	Units: ug/Kg	Prep Date: 03/28/2017	Run No: 339556							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240148	Analysis Date: 03/29/2017	Seq No: 7425835							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500	5000		98.8	80	120				
Barium	5200	500	5000		104	80	120				
Beryllium	5525	50.0	5000		110	80	120				

Sample ID: 1703M82-008CMS	Client ID:	Units: ug/Kg	Prep Date: 03/28/2017	Run No: 339556							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240148	Analysis Date: 03/29/2017	Seq No: 7426081							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	30600	4075	897.7	81.7	75	125				
Barium	13850	2040	4075	9506	107	75	125				
Beryllium	4128	204	4075		101	75	125				

Sample ID: 1703M82-008CMSD	Client ID:	Units: ug/Kg	Prep Date: 03/28/2017	Run No: 339556							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240148	Analysis Date: 03/29/2017	Seq No: 7426043							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	30500	4072	897.7	78.5	75	125	4228	0	20	
Barium	13390	2040	4072	9506	95.3	75	125	13850	3.39	20	
Beryllium	4355	204	4072		107	75	125	4128	5.36	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



March 31, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1703R09

Analytical Environmental Services, Inc. received 5 samples on 3/30/2017 10:40:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1703R09

Date: 3/29/17 Page 1 of 1

Form containing company information (Georgia Power Company), sample details (55-02, APC5-05, ASTCS-06, etc.), analysis requested, preservation codes, and receipt information.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: SS-02
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 9:00:00 AM
Lab ID: 1703R09-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.91		mg/Kg-dry	240283	1	03/31/2017 01:37	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.7	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-05
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:15:00 PM
Lab ID: 1703R09-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.13		mg/Kg-dry	240283	1	03/31/2017 01:40	JR
Barium	14.8	0.48		mg/Kg-dry	240283	1	03/31/2017 18:44	JS
Beryllium	0.06	0.05		mg/Kg-dry	240283	1	03/31/2017 18:44	JS
PERCENT MOISTURE D2216								
Percent Moisture	8.14	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-06
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:30:00 PM
Lab ID: 1703R09-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.58		mg/Kg-dry	240283	1	03/31/2017 01:43	JR
Barium	137	1.01		mg/Kg-dry	240283	2	03/31/2017 19:16	JS
Beryllium	0.54	0.05		mg/Kg-dry	240283	1	03/31/2017 18:50	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.8		mg/Kg-dry	240302	1	03/30/2017 22:54	RF
Surr: Dioctylphthalate	84.6	54.5-121		%REC	240302	1	03/30/2017 22:54	RF
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-07
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:35:00 PM
Lab ID: 1703R09-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	10.2	6.93		mg/Kg-dry	240283	1	03/31/2017 16:03	JR
Barium	29.4	0.46		mg/Kg-dry	240283	1	03/31/2017 18:56	JS
Beryllium	0.29	0.05		mg/Kg-dry	240283	1	03/31/2017 18:56	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	240302	1	03/30/2017 22:07	RF
Surr: Dioctylphthalate	76.3	54.5-121		%REC	240302	1	03/30/2017 22:07	RF
PERCENT MOISTURE D2216								
Percent Moisture	15.2	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-08
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:40:00 PM
Lab ID: 1703R09-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	6.48		mg/Kg-dry	240283	1	03/31/2017 01:50	JR
Barium	21.9	0.43		mg/Kg-dry	240283	1	03/31/2017 19:02	JS
Beryllium	0.17	0.04		mg/Kg-dry	240283	1	03/31/2017 19:02	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	240302	1	03/30/2017 22:31	RF
Surr: Dioctylphthalate	75.6	54.5-121		%REC	240302	1	03/30/2017 22:31	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.4	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 240283

Sample ID: MB-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339650							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428173							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500

Sample ID: MB-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339780							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium BRL 500
 Beryllium BRL 50.0

Sample ID: LCS-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339650							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428174							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5222 5000 5000 104 80 120

Sample ID: LCS-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339780							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432286							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium 5020 500 5000 100 80 120
 Beryllium 4574 50.0 5000 91.5 80 120

Sample ID: 1703P26-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339650							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428177							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 8.102 6.24 4.158 3.740 105 75 125

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 240283

Sample ID: 1703P26-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339780							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432288							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	35.11	0.42	4.158	36.77	-40.0	75	125				S
Beryllium	4.128	0.04	4.158	0.2427	93.5	75	125				

Sample ID: 1703P26-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339650							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428178							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	8.741	6.25	4.169	3.740	120	75	125	8.102	7.59	20	
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Sample ID: 1703P26-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339780							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432289							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	41.24	0.42	4.169	36.77	107	75	125	35.11	16.1	20	
Beryllium	4.078	0.04	4.169	0.2427	92.0	75	125	4.128	1.22	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 240302

Sample ID: MB-240302	Client ID:	Units: mg/Kg	Prep Date: 03/30/2017	Run No: 339666							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429770							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.743 0 3.300 83.1 54.5 121

Sample ID: LCS-240302	Client ID:	Units: mg/Kg	Prep Date: 03/30/2017	Run No: 339666							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429773							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 27.31 6.7 33.30 82.0 54.6 120
 Surr: Dioctylphthalate 2.626 0 3.330 78.9 54.5 121

Sample ID: 1703Q30-004BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/30/2017	Run No: 339666							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429776							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 45.40 7.1 35.43 14.33 87.7 40.6 122
 Surr: Dioctylphthalate 2.748 0 3.543 77.6 54.5 121

Sample ID: 1703Q30-004BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/30/2017	Run No: 339666							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429777							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 46.80 7.1 35.43 14.33 91.6 40.6 122 45.40 3.03 29.9
 Surr: Dioctylphthalate 3.010 0 3.543 85.0 54.5 121 2.748 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 04, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1703S36

Analytical Environmental Services, Inc. received 2 samples on 3/31/2017 11:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1703536

Date: 3/30/17 Page 1 of 1

COMPANY: Georgia Power Company		ADDRESS: 241 Ralph McGill Blvd SE B 10185 Atlanta, GA 30308			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE: 770-296-9648		FAX:			PRESERVATION (See codes)										REMARKS				
SAMPLED BY: Forrest Howard		SIGNATURE:																	
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)												REMARKS
		DATE	TIME				I	T											
1	ASTCS-09	3/30/17	1405	X		50	X	X											
2	ASTGS-10	3/30/17	1410	X		50	X	X											
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION										RECEIPT	
1:		3/30/17 1100		1: to FedEx				PROJECT NAME: Plant Kraft Excavation										Total # of Containers	
2:				2:				PROJECT #:										Turnaround Time Request	
3:				3:		3/31/17 11:20		SITE ADDRESS: Plant Kraft, Port west north GA										<input type="checkbox"/> Standard 5 Business Days	
SPECIAL INSTRUCTIONS/COMMENTS: Report to Stephen.Wilson@resoluteenv.com L.L.millet@southernco.com Forrest.howard@resoluteenv.com		SHIPMENT METHOD		OUT / / VIA:		IN / / VIA:		SEND REPORT TO: in comments										<input checked="" type="checkbox"/> Next Business Day Rush	
		<input type="checkbox"/> CLIENT <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER		<input type="checkbox"/> GREYHOUND <input type="checkbox"/> OTHER				INVOICE TO: GA Power Environmental Affairs (IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same Day Rush (auth req.)	
								QUOTE #: _____ PO#: _____										<input type="checkbox"/> Other _____	
																		STATE PROGRAM (if any): _____	
																		E-mail? Y/N; Fax? Y/N	
																		DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 4-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-09
Project Name: Plant Kraft Excavation	Collection Date: 3/30/2017 2:05:00 PM
Lab ID: 1703S36-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	9.38		mg/Kg-dry	240457	5	04/03/2017 17:19	JS
Barium	35.7	3.13		mg/Kg-dry	240457	5	04/03/2017 17:19	JS
Beryllium	0.40	0.31		mg/Kg-dry	240457	5	04/03/2017 17:19	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.4		mg/Kg-dry	240425	1	04/03/2017 16:22	RF
Surr: Dioctylphthalate	75.7	54.5-121		%REC	240425	1	04/03/2017 16:22	RF
PERCENT MOISTURE D2216								
Percent Moisture	20.1	0		wt%	R339866	1	04/03/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-10
Project Name: Plant Kraft Excavation	Collection Date: 3/30/2017 2:10:00 PM
Lab ID: 1703S36-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.73		mg/Kg-dry	240457	5	04/03/2017 16:48	JS
Barium	29.0	1.91		mg/Kg-dry	240457	5	04/03/2017 16:48	JS
Beryllium	0.24	0.19		mg/Kg-dry	240457	5	04/03/2017 16:48	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	240425	1	04/03/2017 16:45	RF
Surr: Dioctylphthalate	88.3	54.5-121		%REC	240425	1	04/03/2017 16:45	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R339866	1	04/03/2017 08:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703S36

ANALYTICAL QC SUMMARY REPORT

BatchID: 240425

Sample ID: MB-240425	Client ID:	Units: mg/Kg	Prep Date: 04/03/2017	Run No: 339840							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240425	Analysis Date: 04/03/2017	Seq No: 7435086							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.712 0 3.300 82.2 54.5 121

Sample ID: LCS-240425	Client ID:	Units: mg/Kg	Prep Date: 04/03/2017	Run No: 339840							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240425	Analysis Date: 04/03/2017	Seq No: 7435954							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 31.25 6.7 33.30 2.387 86.7 54.6 120
 Surr: Dioctylphthalate 2.787 0 3.330 83.7 54.5 121

Sample ID: 1703R63-005AMS	Client ID:	Units: mg/Kg	Prep Date: 04/03/2017	Run No: 339840							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240425	Analysis Date: 04/04/2017	Seq No: 7436056							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dioctylphthalate 3.107 0 3.330 93.3 54.5 121

Sample ID: 1703R63-005AMS	Client ID:	Units: mg/Kg	Prep Date: 04/03/2017	Run No: 339840							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240425	Analysis Date: 04/04/2017	Seq No: 7436599							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 6194 670 33.30 6776 -1750 40.6 122 S

Sample ID: 1703R63-005AMSD	Client ID:	Units: mg/Kg	Prep Date: 04/03/2017	Run No: 339840							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240425	Analysis Date: 04/04/2017	Seq No: 7436155							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dioctylphthalate 3.031 0 3.330 91.0 54.5 121 3.107 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703S36

ANALYTICAL QC SUMMARY REPORT

BatchID: 240425

Sample ID: 1703R63-005AMSD	Client ID:	Units: mg/Kg	Prep Date: 04/03/2017	Run No: 339840
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240425	Analysis Date: 04/04/2017	Seq No: 7436600

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
TPH (Diesel Range Organics)	6334	670	33.30	6776	-1330	40.6	122	6194	2.25	29.9	S

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703S36

ANALYTICAL QC SUMMARY REPORT

BatchID: 240457

Sample ID: MB-240457	Client ID:	Units: ug/Kg	Prep Date: 04/03/2017	Run No: 339887							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240457	Analysis Date: 04/03/2017	Seq No: 7435318							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-240457	Client ID:	Units: ug/Kg	Prep Date: 04/03/2017	Run No: 339887							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240457	Analysis Date: 04/03/2017	Seq No: 7435320							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	4892	500	5000		97.8	80	120				
Beryllium	4337	50.0	5000		86.7	80	120				

Sample ID: LCS-240457	Client ID:	Units: ug/Kg	Prep Date: 04/03/2017	Run No: 339887							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240457	Analysis Date: 04/03/2017	Seq No: 7435325							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4361	3000	5000		87.2	80	120				
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Sample ID: 1703S36-002AMS	Client ID: ASTCS-10	Units: ug/Kg-dry	Prep Date: 04/03/2017	Run No: 339887							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240457	Analysis Date: 04/03/2017	Seq No: 7435327							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	3831	3820	3818	1646	57.2	75	125				S
Barium	36180	382	3818	28960	189	75	125				S
Beryllium	3841	191	3818	242.1	94.3	75	125				

Sample ID: 1703S36-002AMSD	Client ID: ASTCS-10	Units: ug/Kg-dry	Prep Date: 04/03/2017	Run No: 339887							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240457	Analysis Date: 04/03/2017	Seq No: 7435328							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703S36

ANALYTICAL QC SUMMARY REPORT

BatchID: 240457

Sample ID: 1703S36-002AMSD	Client ID: ASTCS-10	Units: ug/Kg-dry	Prep Date: 04/03/2017	Run No: 339887
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240457	Analysis Date: 04/03/2017	Seq No: 7435328

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	4629	3840	3837	1646	77.7	75	125	3831	18.9	20	
Barium	37300	384	3837	28960	217	75	125	36180	3.05	20	S
Beryllium	3954	192	3837	242.1	96.7	75	125	3841	2.90	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 14, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704A75

Analytical Environmental Services, Inc. received 2 samples on 4/13/2017 7:40:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 14-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-11
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2017 9:20:00 AM
Lab ID: 1704A75-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.52		mg/Kg-dry	240900	1	04/13/2017 16:31	JS
Barium	20.0	0.37		mg/Kg-dry	240900	1	04/13/2017 16:31	JS
Beryllium	0.24	0.04		mg/Kg-dry	240900	1	04/13/2017 16:31	JS
PERCENT MOISTURE D2216								
Percent Moisture	20.8	0		wt%	R340682	1	04/13/2017 15:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-21
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2017 3:00:00 PM
Lab ID: 1704A75-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.10		mg/Kg-dry	240900	1	04/13/2017 16:37	JS
Barium	23.3	0.34		mg/Kg-dry	240900	1	04/13/2017 16:37	JS
Beryllium	0.21	0.03		mg/Kg-dry	240900	1	04/13/2017 16:37	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.6		mg/Kg-dry	240907	1	04/13/2017 15:05	RF
Surr: Dioctylphthalate	67.7	54.5-121		%REC	240907	1	04/13/2017 15:05	RF
PERCENT MOISTURE D2216								
Percent Moisture	21.7	0		wt%	R340682	1	04/13/2017 15:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704A75

ANALYTICAL QC SUMMARY REPORT

BatchID: 240900

Sample ID: MB-240900	Client ID:	Units: ug/Kg	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453501							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-240900	Client ID:	Units: ug/Kg	Prep Date: 04/12/2017	Run No: 340568							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453502							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4317	1000	5000	199.8	82.3	80	120				
Barium	4922	500	5000		98.4	80	120				
Beryllium	4549	50.0	5000		91.0	80	120				

Sample ID: 1704917-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453504							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7694	7690	5492	2373	96.9	75	125				
Barium	40420	549	5492	33980	117	75	125				
Beryllium	5429	54.9	5492	196.2	95.3	75	125				

Sample ID: 1704917-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453505							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7405	7320	5230	2373	96.2	75	125	7694	3.83	20	
Barium	40670	523	5230	33980	128	75	125	40420	0.603	20	S
Beryllium	5298	52.3	5230	196.2	97.5	75	125	5429	2.45	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704A75

ANALYTICAL QC SUMMARY REPORT

BatchID: 240907

Sample ID: MB-240907	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7453229							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.743 0 3.300 83.1 54.5 121

Sample ID: LCS-240907	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7453407							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 23.91 6.7 33.30 71.8 54.6 120
 Surr: Dioctylphthalate 2.752 0 3.330 82.6 54.5 121

Sample ID: 1704784-002CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7454711							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 99.69 8.0 39.52 107.2 -19.0 40.6 122 S
 Surr: Dioctylphthalate 3.330 0 3.952 84.3 54.5 121

Sample ID: 1704784-002CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7454712							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 111.1 8.0 39.52 107.2 9.98 40.6 122 99.69 10.9 29.9 S
 Surr: Dioctylphthalate 3.678 0 3.952 93.1 54.5 121 3.330 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 18, 2017

Stuart Anderson
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft

Dear Stuart Anderson:

Order No: 1704C31

Analytical Environmental Services, Inc. received 1 samples on 4/14/2017 8:27:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 18-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-22
Project Name: Plant Kraft	Collection Date: 4/13/2017 9:05:00 AM
Lab ID: 1704C31-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B				(SW3050B)				
Arsenic	BRL	8.04		mg/Kg-dry	241151	1	04/17/2017 15:14	JS
Barium	33.2	0.54		mg/Kg-dry	241151	1	04/17/2017 15:14	JS
Beryllium	0.18	0.05		mg/Kg-dry	241151	1	04/17/2017 15:14	JS
DIESEL RANGE ORGANICS SW8015C				(SW3550C)				
TPH (Diesel Range Organics)	BRL	8.0		mg/Kg-dry	241087	1	04/17/2017 12:03	RF
Surr: Dioctylphthalate	73.1	54.5-121		%REC	241087	1	04/17/2017 12:03	RF
PERCENT MOISTURE D2216								
Percent Moisture	16.2	0		wt%	R340785	1	04/14/2017 15:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft
Workorder: 1704C31

ANALYTICAL QC SUMMARY REPORT

BatchID: 241087

Sample ID: MB-241087	Client ID:	Units: mg/Kg	Prep Date: 04/17/2017	Run No: 340823							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241087	Analysis Date: 04/17/2017	Seq No: 7460810							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.817 0 3.300 85.4 54.5 121

Sample ID: LCS-241087	Client ID:	Units: mg/Kg	Prep Date: 04/17/2017	Run No: 340823							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241087	Analysis Date: 04/17/2017	Seq No: 7460811							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 23.12 6.7 33.30 69.4 54.6 120
 Surr: Dioctylphthalate 2.592 0 3.330 77.8 54.5 121

Sample ID: 1704A43-004BMS	Client ID:	Units: mg/Kg	Prep Date: 04/17/2017	Run No: 340823							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241087	Analysis Date: 04/17/2017	Seq No: 7460814							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 24.49 6.7 33.30 3.167 64.0 40.6 122
 Surr: Dioctylphthalate 2.691 0 3.330 80.8 54.5 121

Sample ID: 1704A43-004BMSD	Client ID:	Units: mg/Kg	Prep Date: 04/17/2017	Run No: 340823							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241087	Analysis Date: 04/17/2017	Seq No: 7460815							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 23.39 6.7 33.30 3.167 60.7 40.6 122 24.49 4.56 29.9
 Surr: Dioctylphthalate 2.517 0 3.330 75.6 54.5 121 2.691 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft
Workorder: 1704C31

ANALYTICAL QC SUMMARY REPORT

BatchID: 241151

Sample ID: MB-241151	Client ID:	Units: ug/Kg	Prep Date: 04/17/2017	Run No: 340861							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241151	Analysis Date: 04/17/2017	Seq No: 7461366							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241151	Client ID:	Units: ug/Kg	Prep Date: 04/17/2017	Run No: 340861							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241151	Analysis Date: 04/17/2017	Seq No: 7461367							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500	5000		83.2	80	120				
Barium	4918	500	5000		98.4	80	120				
Beryllium	4546	50.0	5000		90.9	80	120				

Sample ID: 1704C31-001AMS	Client ID: ASTCS-22	Units: mg/Kg-dry	Prep Date: 04/17/2017	Run No: 340861							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241151	Analysis Date: 04/17/2017	Seq No: 7461369							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	12.00	8.05	5.367	7.455	84.7	75	125				
Barium	38.96	0.54	5.367	33.25	106	75	125				
Beryllium	5.502	0.05	5.367	0.1823	99.1	75	125				

Sample ID: 1704C31-001AMSD	Client ID: ASTCS-22	Units: mg/Kg-dry	Prep Date: 04/17/2017	Run No: 340861							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241151	Analysis Date: 04/17/2017	Seq No: 7461370							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	11.63	5.33	5.331	7.455	78.3	75	125	12.00	3.16	20	
Barium	38.30	0.53	5.331	33.25	94.7	75	125	38.96	1.71	20	
Beryllium	5.184	0.05	5.331	0.1823	93.8	75	125	5.502	5.94	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



April 20, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704F89

Analytical Environmental Services, Inc. received 4 samples on 4/19/2017 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 20-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-23
Project Name: Plant Kraft Excavation	Collection Date: 4/17/2017 1:10:00 PM
Lab ID: 1704F89-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	10.2	5.73		mg/Kg-dry	241302	1	04/20/2017 15:32	JS
Barium	30.8	0.38		mg/Kg-dry	241302	1	04/20/2017 15:32	JS
Beryllium	0.27	0.04		mg/Kg-dry	241302	1	04/20/2017 15:32	JS
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.8		mg/Kg-dry	241250	1	04/19/2017 14:47	RF
Surr: Dioctylphthalate	84.1	54.5-121		%REC	241250	1	04/19/2017 14:47	RF
PERCENT MOISTURE D2216								
Percent Moisture	23.5	0		wt%	R341092	1	04/19/2017 15:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-24
Project Name: Plant Kraft Excavation	Collection Date: 4/17/2017 1:15:00 PM
Lab ID: 1704F89-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.83		mg/Kg-dry	241302	1	04/20/2017 15:38	JS
Barium	24.9	0.52		mg/Kg-dry	241302	1	04/20/2017 15:38	JS
Beryllium	0.25	0.05		mg/Kg-dry	241302	1	04/20/2017 15:38	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.7		mg/Kg-dry	241250	1	04/19/2017 15:10	RF
Surr: Dioctylphthalate	91	54.5-121		%REC	241250	1	04/19/2017 15:10	RF
PERCENT MOISTURE D2216								
Percent Moisture	23.3	0		wt%	R341092	1	04/19/2017 15:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-25
Project Name: Plant Kraft Excavation	Collection Date: 4/17/2017 1:20:00 PM
Lab ID: 1704F89-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.35		mg/Kg-dry	241302	1	04/20/2017 15:45	JS
Barium	23.5	0.49		mg/Kg-dry	241302	1	04/20/2017 15:45	JS
Beryllium	0.30	0.05		mg/Kg-dry	241302	1	04/20/2017 15:45	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.4		mg/Kg-dry	241250	1	04/19/2017 15:33	RF
Surr: Dioctylphthalate	79	54.5-121		%REC	241250	1	04/19/2017 15:33	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.9	0		wt%	R341092	1	04/19/2017 15:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-26
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2017 12:40:00 PM
Lab ID: 1704F89-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.48		mg/Kg-dry	241302	1	04/20/2017 16:09	JS
Barium	24.3	0.50		mg/Kg-dry	241302	1	04/20/2017 16:09	JS
Beryllium	0.23	0.05		mg/Kg-dry	241302	1	04/20/2017 16:09	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	241250	1	04/19/2017 15:56	RF
Surr: Dioctylphthalate	85.7	54.5-121		%REC	241250	1	04/19/2017 15:56	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.6	0		wt%	R341092	1	04/19/2017 15:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704F89

ANALYTICAL QC SUMMARY REPORT

BatchID: 241250

Sample ID: MB-241250	Client ID:	Units: mg/Kg	Prep Date: 04/19/2017	Run No: 341039							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241250	Analysis Date: 04/19/2017	Seq No: 7466262							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.695 0 3.300 81.7 54.5 121

Sample ID: LCS-241250	Client ID:	Units: mg/Kg	Prep Date: 04/19/2017	Run No: 341039							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241250	Analysis Date: 04/19/2017	Seq No: 7466263							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 25.40 6.7 33.30 76.3 54.6 120
 Surr: Dioctylphthalate 2.811 0 3.330 84.4 54.5 121

Sample ID: 1704B90-013BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/19/2017	Run No: 341039							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241250	Analysis Date: 04/19/2017	Seq No: 7469514							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 42.99 7.6 37.72 19.50 62.3 40.6 122
 Surr: Dioctylphthalate 3.083 0 3.772 81.7 54.5 121

Sample ID: 1704B90-013BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/19/2017	Run No: 341039							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241250	Analysis Date: 04/19/2017	Seq No: 7469515							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 41.32 7.6 37.72 19.50 57.9 40.6 122 42.99 3.94 29.9
 Surr: Dioctylphthalate 3.257 0 3.772 86.3 54.5 121 3.083 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704F89

ANALYTICAL QC SUMMARY REPORT

BatchID: 241302

Sample ID: MB-241302	Client ID:	Units: ug/Kg	Prep Date: 04/20/2017	Run No: 341176							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241302	Analysis Date: 04/20/2017	Seq No: 7470000							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241302	Client ID:	Units: ug/Kg	Prep Date: 04/20/2017	Run No: 341176							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241302	Analysis Date: 04/20/2017	Seq No: 7470001							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4268	4000	5000		85.4	80	120				
Barium	4898	500	5000		98.0	80	120				
Beryllium	4582	50.0	5000		91.6	80	120				

Sample ID: 1704E82-001AMS	Client ID:	Units: ug/Kg	Prep Date: 04/20/2017	Run No: 341176							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241302	Analysis Date: 04/20/2017	Seq No: 7470009							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	6470	5890	4602	2981	75.8	75	125				
Barium	10630	460	4602	6340	93.2	75	125				
Beryllium	4933	46.0	4602	336.3	99.9	75	125				

Sample ID: 1704E82-001AMSD	Client ID:	Units: ug/Kg	Prep Date: 04/20/2017	Run No: 341176							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241302	Analysis Date: 04/20/2017	Seq No: 7470013							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	6389	5800	4607	2981	74.0	75	125	6470	1.25	20	S
Barium	10770	461	4607	6340	96.3	75	125	10630	1.36	20	
Beryllium	4934	46.1	4607	336.3	99.8	75	125	4933	0.017	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 21, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704G99

Analytical Environmental Services, Inc. received 3 samples on 4/20/2017 10:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 21-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-27
Project Name: Plant Kraft Excavation	Collection Date: 4/19/2017 9:05:00 AM
Lab ID: 1704G99-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.17		mg/Kg-dry	241302	1	04/20/2017 23:10	JS
Barium	50.0	0.48		mg/Kg-dry	241302	1	04/20/2017 23:10	JS
Beryllium	0.30	0.05		mg/Kg-dry	241302	1	04/20/2017 23:10	JS
PERCENT MOISTURE D2216								
Percent Moisture	21.9	0		wt%	R341258	1	04/21/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-28
Project Name: Plant Kraft Excavation	Collection Date: 4/19/2017 9:10:00 AM
Lab ID: 1704G99-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.55		mg/Kg-dry	241302	1	04/20/2017 23:17	JS
Barium	145	1.01		mg/Kg-dry	241302	2	04/21/2017 14:32	JS
Beryllium	0.21	0.05		mg/Kg-dry	241302	1	04/20/2017 23:17	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	9.1		mg/Kg-dry	241361	1	04/20/2017 19:43	RF
Surr: Dioctylphthalate	85.6	54.5-121		%REC	241361	1	04/20/2017 19:43	RF
PERCENT MOISTURE D2216								
Percent Moisture	26.2	0		wt%	R341258	1	04/21/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-29
Project Name: Plant Kraft Excavation	Collection Date: 4/19/2017 1:45:00 PM
Lab ID: 1704G99-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.99		mg/Kg-dry	241302	1	04/20/2017 23:23	JS
Barium	12.1	0.47		mg/Kg-dry	241302	1	04/20/2017 23:23	JS
Beryllium	0.11	0.05		mg/Kg-dry	241302	1	04/20/2017 23:23	JS
PERCENT MOISTURE D2216								
Percent Moisture	19.6	0		wt%	R341258	1	04/21/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704G99

ANALYTICAL QC SUMMARY REPORT

BatchID: 241302

Sample ID: MB-241302	Client ID:	Units: ug/Kg	Prep Date: 04/20/2017	Run No: 341176							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241302	Analysis Date: 04/20/2017	Seq No: 7470000							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241302	Client ID:	Units: ug/Kg	Prep Date: 04/20/2017	Run No: 341176							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241302	Analysis Date: 04/20/2017	Seq No: 7470001							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4268	4000	5000		85.4	80	120				
Barium	4898	500	5000		98.0	80	120				
Beryllium	4582	50.0	5000		91.6	80	120				

Sample ID: 1704E82-001AMS	Client ID:	Units: ug/Kg	Prep Date: 04/20/2017	Run No: 341176							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241302	Analysis Date: 04/20/2017	Seq No: 7470009							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	6470	5890	4602	2981	75.8	75	125				
Barium	10630	460	4602	6340	93.2	75	125				
Beryllium	4933	46.0	4602	336.3	99.9	75	125				

Sample ID: 1704E82-001AMSD	Client ID:	Units: ug/Kg	Prep Date: 04/20/2017	Run No: 341176							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241302	Analysis Date: 04/20/2017	Seq No: 7470013							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	6389	5800	4607	2981	74.0	75	125	6470	1.25	20	S
Barium	10770	461	4607	6340	96.3	75	125	10630	1.36	20	
Beryllium	4934	46.1	4607	336.3	99.8	75	125	4933	0.017	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704G99

ANALYTICAL QC SUMMARY REPORT

BatchID: 241361

Sample ID: MB-241361	Client ID:	Units: mg/Kg	Prep Date: 04/20/2017	Run No: 341219							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241361	Analysis Date: 04/20/2017	Seq No: 7471676							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 3.097 0 3.300 93.8 54.5 121

Sample ID: LCS-241361	Client ID:	Units: mg/Kg	Prep Date: 04/20/2017	Run No: 341219							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241361	Analysis Date: 04/20/2017	Seq No: 7471677							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 25.64 6.7 33.30 77.0 54.6 120
 Surr: Dioctylphthalate 3.041 0 3.330 91.3 54.5 121

Sample ID: 1704G40-004BMS	Client ID:	Units: mg/Kg	Prep Date: 04/20/2017	Run No: 341219							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241361	Analysis Date: 04/20/2017	Seq No: 7471755							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 81.66 6.7 33.30 64.21 52.4 40.6 122
 Surr: Dioctylphthalate 2.925 0 3.330 87.8 54.5 121

Sample ID: 1704G40-004BMSD	Client ID:	Units: mg/Kg	Prep Date: 04/20/2017	Run No: 341219							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241361	Analysis Date: 04/20/2017	Seq No: 7471754							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 70.85 6.7 33.30 64.21 20.0 40.6 122 81.66 14.2 29.9 S
 Surr: Dioctylphthalate 2.649 0 3.330 79.6 54.5 121 2.925 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 25, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704J04

Analytical Environmental Services, Inc. received 2 samples on 4/22/2017 11:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 25-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-30
Project Name: Plant Kraft Excavation	Collection Date: 4/21/2017 9:05:00 AM
Lab ID: 1704J04-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.66		mg/Kg-dry	241301	1	04/24/2017 16:35	JS
Barium	25.9	0.51		mg/Kg-dry	241301	1	04/24/2017 16:35	JS
Beryllium	0.18	0.05		mg/Kg-dry	241301	1	04/24/2017 16:35	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.7		mg/Kg-dry	241476	1	04/24/2017 14:22	RF
Surr: Dioctylphthalate	84.9	54.5-121		%REC	241476	1	04/24/2017 14:22	RF
PERCENT MOISTURE D2216								
Percent Moisture	23.4	0		wt%	R341481	1	04/25/2017 12:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-31
Project Name: Plant Kraft Excavation	Collection Date: 4/21/2017 11:00:00 AM
Lab ID: 1704J04-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	6.11		mg/Kg-dry	241301	1	04/24/2017 16:06	JS
Barium	14.7	0.41		mg/Kg-dry	241301	1	04/24/2017 16:06	JS
Beryllium	0.27	0.04		mg/Kg-dry	241301	1	04/24/2017 16:06	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	9.4		mg/Kg-dry	241476	1	04/24/2017 14:45	RF
Surr: Dioctylphthalate	77.9	54.5-121		%REC	241476	1	04/24/2017 14:45	RF
PERCENT MOISTURE D2216								
Percent Moisture	29.0	0		wt%	R341481	1	04/25/2017 12:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704J04

ANALYTICAL QC SUMMARY REPORT

BatchID: 241301

Sample ID: MB-241301	Client ID:	Units: ug/Kg	Prep Date: 04/24/2017	Run No: 341367							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241301	Analysis Date: 04/24/2017	Seq No: 7475647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241301	Client ID:	Units: ug/Kg	Prep Date: 04/24/2017	Run No: 341367							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241301	Analysis Date: 04/24/2017	Seq No: 7475648							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4386	4300	5000		87.7	80	120				
Barium	4898	500	5000		98.0	80	120				
Beryllium	4729	50.0	5000		94.6	80	120				

Sample ID: 1704J03-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/24/2017	Run No: 341367							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241301	Analysis Date: 04/24/2017	Seq No: 7475650							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	6.294	5.92	4.772	5.434	18.0	75	125				S
Barium	102.5	0.48	4.772	136.4	-711	75	125				S
Beryllium	4.867	0.05	4.772	0.7869	85.5	75	125				

Sample ID: 1704J03-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/24/2017	Run No: 341367							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241301	Analysis Date: 04/24/2017	Seq No: 7475651							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	10.74	7.16	4.772	5.434	111	75	125	6.294	52.2	25	R
Barium	131.4	0.48	4.772	136.4	-105	75	125	102.5	24.7	25	S
Beryllium	5.172	0.05	4.772	0.7869	91.9	75	125	4.867	6.08	25	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704J04

ANALYTICAL QC SUMMARY REPORT

BatchID: 241476

Sample ID: MB-241476	Client ID:	Units: mg/Kg	Prep Date: 04/24/2017	Run No: 341355							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241476	Analysis Date: 04/24/2017	Seq No: 7475183							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.941 0 3.300 89.1 54.5 121

Sample ID: LCS-241476	Client ID:	Units: mg/Kg	Prep Date: 04/24/2017	Run No: 341355							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241476	Analysis Date: 04/24/2017	Seq No: 7475184							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 27.68 6.7 33.30 83.1 54.6 120
 Surr: Dioctylphthalate 3.016 0 3.330 90.6 54.5 121

Sample ID: 1704177-002BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/24/2017	Run No: 341355							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241476	Analysis Date: 04/24/2017	Seq No: 7475188							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 23.94 6.9 34.48 69.4 40.6 122
 Surr: Dioctylphthalate 2.556 0 3.448 74.1 54.5 121

Sample ID: 1704177-002BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/24/2017	Run No: 341355							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241476	Analysis Date: 04/24/2017	Seq No: 7475373							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 26.09 6.9 34.48 75.7 40.6 122 23.94 8.58 29.9
 Surr: Dioctylphthalate 2.803 0 3.448 81.3 54.5 121 2.556 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 27, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704L12

Analytical Environmental Services, Inc. received 1 samples on 4/26/2017 7:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 27-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-32
Project Name: Plant Kraft Excavation	Collection Date: 4/24/2017 10:10:00 AM
Lab ID: 1704L12-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	9.04		mg/Kg-dry	241632	1	04/27/2017 01:26	JS
Barium	65.8	0.60		mg/Kg-dry	241632	1	04/27/2017 01:26	JS
Beryllium	0.36	0.06		mg/Kg-dry	241632	1	04/27/2017 01:26	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	9.1		mg/Kg-dry	241677	1	04/27/2017 12:18	RF
Surr: Dioctylphthalate	93.6	54.5-121		%REC	241677	1	04/27/2017 12:18	RF
PERCENT MOISTURE D2216								
Percent Moisture	26.5	0		wt%	R341690	1	04/27/2017 19:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704L12

ANALYTICAL QC SUMMARY REPORT

BatchID: 241632

Sample ID: MB-241632	Client ID:	Units: ug/Kg	Prep Date: 04/26/2017	Run No: 341599							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241632	Analysis Date: 04/26/2017	Seq No: 7480603							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500

Sample ID: MB-241632	Client ID:	Units: ug/Kg	Prep Date: 04/26/2017	Run No: 341675							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241632	Analysis Date: 04/27/2017	Seq No: 7482601							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium BRL 500
 Beryllium BRL 50.0

Sample ID: LCS-241632	Client ID:	Units: ug/Kg	Prep Date: 04/26/2017	Run No: 341599							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241632	Analysis Date: 04/26/2017	Seq No: 7480604							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4499 2000 5000 90.0 80 120

Sample ID: LCS-241632	Client ID:	Units: ug/Kg	Prep Date: 04/26/2017	Run No: 341675							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241632	Analysis Date: 04/27/2017	Seq No: 7482604							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium 4609 500 5000 47.35 91.2 80 120
 Beryllium 4276 50.0 5000 85.5 80 120

Sample ID: 1704L11-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/26/2017	Run No: 341599							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241632	Analysis Date: 04/26/2017	Seq No: 7480606							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 18.31 8.73 5.822 13.05 90.3 75 125

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704L12

ANALYTICAL QC SUMMARY REPORT

BatchID: 241632

Sample ID: 1704L11-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/26/2017	Run No: 341675							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241632	Analysis Date: 04/27/2017	Seq No: 7482609							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	108.9	0.58	5.822	107.2	27.9	75	125				S
Beryllium	6.317	0.06	5.822	0.7609	95.4	75	125				

Sample ID: 1704L11-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/26/2017	Run No: 341599							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241632	Analysis Date: 04/26/2017	Seq No: 7480607							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	18.61	8.64	5.759	13.05	96.6	75	125	18.31	1.64	20	
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Sample ID: 1704L11-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/26/2017	Run No: 341675							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241632	Analysis Date: 04/27/2017	Seq No: 7482611							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	111.7	0.58	5.759	107.2	77.7	75	125	108.9	2.59	20	
Beryllium	6.116	0.06	5.759	0.7609	93.0	75	125	6.317	3.23	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704L12

ANALYTICAL QC SUMMARY REPORT

BatchID: 241677

Sample ID: MB-241677	Client ID:	Units: mg/Kg	Prep Date: 04/27/2017	Run No: 341670							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241677	Analysis Date: 04/27/2017	Seq No: 7482473							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.897 0 3.300 87.8 54.5 121

Sample ID: LCS-241677	Client ID:	Units: mg/Kg	Prep Date: 04/27/2017	Run No: 341670							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241677	Analysis Date: 04/27/2017	Seq No: 7482474							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 23.73 6.7 33.30 71.3 54.6 120
 Surr: Dioctylphthalate 2.703 0 3.330 81.2 54.5 121

Sample ID: 1704L12-001AMS	Client ID: ASTCS-32	Units: mg/Kg-dry	Prep Date: 04/27/2017	Run No: 341670							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241677	Analysis Date: 04/27/2017	Seq No: 7482478							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 37.86 9.1 45.32 83.5 40.6 122
 Surr: Dioctylphthalate 4.210 0 4.532 92.9 54.5 121

Sample ID: 1704L12-001AMSD	Client ID: ASTCS-32	Units: mg/Kg-dry	Prep Date: 04/27/2017	Run No: 341670							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 241677	Analysis Date: 04/27/2017	Seq No: 7482480							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 34.41 9.1 45.32 75.9 40.6 122 37.86 9.55 29.9
 Surr: Dioctylphthalate 3.850 0 4.532 85.0 54.5 121 4.210 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 28, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704M66

Analytical Environmental Services, Inc. received 3 samples on 4/27/2017 10:35:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 28-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-12
Project Name: Plant Kraft Excavation	Collection Date: 4/26/2017 2:15:00 PM
Lab ID: 1704M66-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.61		mg/Kg-dry	241739	5	04/28/2017 16:25	JR
Barium	14.0	2.54		mg/Kg-dry	241739	5	04/28/2017 16:25	JR
Beryllium	0.20	0.05		mg/Kg-dry	241739	5	04/28/2017 16:25	JR
PERCENT MOISTURE D2216								
Percent Moisture	8.11	0		wt%	R341768	1	04/28/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-13
Project Name: Plant Kraft Excavation	Collection Date: 4/26/2017 2:20:00 PM
Lab ID: 1704M66-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.33		mg/Kg-dry	241739	5	04/28/2017 16:51	JR
Barium	9.58	2.78		mg/Kg-dry	241739	5	04/28/2017 16:51	JR
Beryllium	BRL	0.06		mg/Kg-dry	241739	5	04/28/2017 16:51	JR
PERCENT MOISTURE D2216								
Percent Moisture	16.0	0		wt%	R341768	1	04/28/2017 07:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-14
Project Name: Plant Kraft Excavation	Collection Date: 4/26/2017 2:25:00 PM
Lab ID: 1704M66-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.70		mg/Kg-dry	241739	5	04/28/2017 16:57	JR
Barium	13.1	2.57		mg/Kg-dry	241739	5	04/28/2017 16:57	JR
Beryllium	BRL	0.05		mg/Kg-dry	241739	5	04/28/2017 16:57	JR
PERCENT MOISTURE D2216								
Percent Moisture	3.95	0		wt%	R341768	1	04/28/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704M66

ANALYTICAL QC SUMMARY REPORT

BatchID: 241739

Sample ID: MB-241739	Client ID:	Units: ug/Kg	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/27/2017	Seq No: 7483720							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500

Sample ID: MB-241739	Client ID:	Units: ug/Kg	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/28/2017	Seq No: 7486447							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium BRL 500
 Beryllium BRL 50.0

Sample ID: LCS-241739	Client ID:	Units: ug/Kg	Prep Date: 04/27/2017	Run No: 341712							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/27/2017	Seq No: 7483721							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500 5000 94.9 80 120

Sample ID: LCS-241739	Client ID:	Units: ug/Kg	Prep Date: 04/27/2017	Run No: 341712							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/28/2017	Seq No: 7486448							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium 4781 500 5000 95.6 80 120
 Beryllium 4109 50.0 5000 82.2 80 120

Sample ID: 1704M65-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/27/2017	Seq No: 7483723							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 13850 7990 5324 8943 92.1 75 125

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704M66

ANALYTICAL QC SUMMARY REPORT

BatchID: 241739

Sample ID: 1704M65-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/28/2017	Seq No: 7486450							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	152800	2660	5324	135200	331	75	125				S
Beryllium	7967	266	5324	1002	131	75	125				S

Sample ID: 1704M65-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/27/2017	Seq No: 7483724							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	14190	7990	5325	8943	98.5	75	125	13850	2.41	20	
---------	-------	------	------	------	------	----	-----	-------	------	----	--

Sample ID: 1704M65-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/28/2017	Seq No: 7486451							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	150200	2660	5325	135200	282	75	125	152800	1.71	20	S
Beryllium	7645	266	5325	1002	125	75	125	7967	4.13	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 03, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704O50

Analytical Environmental Services, Inc. received 3 samples on 4/28/2017 12:35:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 3-May-17

Client: Georgia Power Company	Client Sample ID: APCS-15
Project Name: Plant Kraft Excavation	Collection Date: 4/27/2017 11:40:00 AM
Lab ID: 1704O50-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.94		mg/Kg-dry	241842	5	05/01/2017 17:16	JR
Barium	11.3	0.53		mg/Kg-dry	241842	5	05/01/2017 17:16	JR
Beryllium	0.33	0.05		mg/Kg-dry	241842	5	05/01/2017 17:16	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R341910	1	05/01/2017 07:30	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-17

Client: Georgia Power Company	Client Sample ID: APCS-16
Project Name: Plant Kraft Excavation	Collection Date: 4/27/2017 11:45:00 AM
Lab ID: 1704O50-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.71		mg/Kg-dry	241842	5	05/01/2017 16:38	JR
Barium	7.63	0.51		mg/Kg-dry	241842	5	05/01/2017 16:38	JR
Beryllium	BRL	0.05		mg/Kg-dry	241842	5	05/01/2017 16:38	JR
PERCENT MOISTURE D2216								
Percent Moisture	11.5	0		wt%	R341910	1	05/01/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-17

Client: Georgia Power Company	Client Sample ID: APCS-17
Project Name: Plant Kraft Excavation	Collection Date: 4/27/2017 11:50:00 AM
Lab ID: 1704O50-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.59		mg/Kg-dry	241842	5	05/01/2017 17:22	JR
Barium	11.8	0.51		mg/Kg-dry	241842	5	05/01/2017 17:22	JR
Beryllium	BRL	0.05		mg/Kg-dry	241842	5	05/01/2017 17:22	JR
PERCENT MOISTURE D2216								
Percent Moisture	6.70	0		wt%	R341910	1	05/01/2017 07:30	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704O50

ANALYTICAL QC SUMMARY REPORT

BatchID: 241842

Sample ID: MB-241842	Client ID:	Units: ug/Kg	Prep Date: 05/01/2017	Run No: 341934							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241842	Analysis Date: 05/01/2017	Seq No: 7489717							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241842	Client ID:	Units: ug/Kg	Prep Date: 05/01/2017	Run No: 341934							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241842	Analysis Date: 05/01/2017	Seq No: 7489723							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5033	1500	5000		101	80	120				
Barium	4609	500	5000		92.2	80	120				
Beryllium	4722	50.0	5000		94.4	80	120				

Sample ID: 1704O50-002AMS	Client ID: APCS-16	Units: mg/Kg-dry	Prep Date: 05/01/2017	Run No: 341934							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241842	Analysis Date: 05/01/2017	Seq No: 7489719							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7.054	5.17	5.175	1.740	103	75	125				
Barium	16.16	0.52	5.175	7.629	165	75	125				S
Beryllium	5.543	0.05	5.175		107	75	125				

Sample ID: 1704O50-002AMSD	Client ID: APCS-16	Units: mg/Kg-dry	Prep Date: 05/01/2017	Run No: 341934							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241842	Analysis Date: 05/01/2017	Seq No: 7489720							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	8.187	7.76	5.173	1.740	125	75	125	7.054	14.9	20	
Barium	14.23	0.52	5.173	7.629	128	75	125	16.16	12.7	20	S
Beryllium	5.798	0.05	5.173		112	75	125	5.543	4.49	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



April 10, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704246

Analytical Environmental Services, Inc. received 4 samples on 4/5/2017 10:00:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1704246

Date: 4/4/17

Page 1 of 1

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE B10185 Atlanta GA 30308</u>		ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: <u>(770) 296-9648</u>		FAX:		PRESERVATION (See codes)												
SAMPLED BY: <u>Forrest Howard</u>		SIGNATURE:		DATE		TIME		Grab	Composite	Matrix (See codes)	EPA 6020 CPABOIS		REMARKS		No # of Containers	
#	SAMPLE ID										I	I				
1	ASTCS-11 ⁽¹¹⁾ <u>ASTCS-11</u>	<u>4/3/17</u>	<u>1335</u>	X		SO					X	X			<u>1</u>	
2	<u>ASTCS-12</u>	<u>4/3/17</u>	<u>1340</u>	X		SO					X	X			<u>1</u>	
3	<u>ASTCS-13</u>	<u>4/4/17</u>	<u>1325</u>	X		SO					X	X			<u>1</u>	
4	<u>ASTCS-14</u>	<u>4/4/17</u>	<u>1330</u>	X		SO					X	X			<u>1</u>	
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION						RECEIPT		
1:		<u>4/4/17</u> 4/3/17 1700		1: <u>To Facility</u>				PROJECT NAME: <u>Plant Kraft Execution</u>						Total # of Containers		
2:				2: <u>Forrest Howard</u>		<u>4/5/17 1000</u>		PROJECT #:						Turnaround Time Request <input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other		
3:				3:				SITE ADDRESS: <u>Plant Kraft, Port Wentworth</u>								
SPECIAL INSTRUCTIONS/COMMENTS: <u>Report to: Stephen Wilson @ Result env.com LL.millet@southrenco.com forrest.howard@Resultenv.com</u>				SHIPMENT METHOD				SEND REPORT TO: <u>in comments</u>						STATE PROGRAM (if any):		
				OUT / / VIA: IN / / VIA: <input type="checkbox"/> CLIENT <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER <input type="checkbox"/> GREYHOUND <input type="checkbox"/> OTHER				INVOICE TO: <u>GPC Environmental Affairs</u> (IF DIFFERENT FROM ABOVE)						E-mail? Y/N; Fax? Y/N		
								QUOTE #:						DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV		

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 10-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-11
Project Name: Plant Kraft Excavation	Collection Date: 4/3/2017 1:35:00 PM
Lab ID: 1704246-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	6.23		mg/Kg-dry	240659	5	04/06/2017 15:34	JS
Barium	23.1	2.08		mg/Kg-dry	240659	5	04/06/2017 15:34	JS
Beryllium	0.22	0.21		mg/Kg-dry	240659	5	04/06/2017 15:34	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.2		mg/Kg-dry	240540	1	04/05/2017 17:11	RF
Surr: Dioctylphthalate	83.8	54.5-121		%REC	240540	1	04/05/2017 17:11	RF
PERCENT MOISTURE D2216								
Percent Moisture	18.0	0		wt%	R340099	1	04/05/2017 16:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-12
Project Name: Plant Kraft Excavation	Collection Date: 4/3/2017 1:40:00 PM
Lab ID: 1704246-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	7.95	6.70		mg/Kg-dry	240659	5	04/06/2017 16:05	JS
Barium	41.6	2.23		mg/Kg-dry	240659	5	04/06/2017 16:05	JS
Beryllium	0.53	0.22		mg/Kg-dry	240659	5	04/06/2017 16:05	JS
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.5		mg/Kg-dry	240540	1	04/05/2017 17:34	RF
Surr: Dioctylphthalate	79.1	54.5-121		%REC	240540	1	04/05/2017 17:34	RF
PERCENT MOISTURE D2216								
Percent Moisture	21.3	0		wt%	R340099	1	04/05/2017 16:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-13
Project Name: Plant Kraft Excavation	Collection Date: 4/4/2017 1:25:00 PM
Lab ID: 1704246-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.64		mg/Kg-dry	240659	5	04/06/2017 16:11	JS
Barium	27.5	2.21		mg/Kg-dry	240659	5	04/06/2017 16:11	JS
Beryllium	0.20	0.04		mg/Kg-dry	240659	5	04/06/2017 16:11	JS
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.6		mg/Kg-dry	240540	1	04/05/2017 17:57	RF
Surr: Dioctylphthalate	84	54.5-121		%REC	240540	1	04/05/2017 17:57	RF
PERCENT MOISTURE D2216								
Percent Moisture	21.8	0		wt%	R340099	1	04/05/2017 16:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-14
Project Name: Plant Kraft Excavation	Collection Date: 4/4/2017 1:30:00 PM
Lab ID: 1704246-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.49		mg/Kg-dry	240659	5	04/06/2017 16:17	JS
Barium	22.7	2.50		mg/Kg-dry	240659	5	04/06/2017 16:17	JS
Beryllium	0.20	0.05		mg/Kg-dry	240659	5	04/06/2017 16:17	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.9		mg/Kg-dry	240540	1	04/05/2017 18:20	RF
Surr: Dioctylphthalate	76	54.5-121		%REC	240540	1	04/05/2017 18:20	RF
PERCENT MOISTURE D2216								
Percent Moisture	24.5	0		wt%	R340099	1	04/05/2017 16:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704246

ANALYTICAL QC SUMMARY REPORT

BatchID: 240540

Sample ID: MB-240540	Client ID:	Units: mg/Kg	Prep Date: 04/04/2017	Run No: 339939							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240540	Analysis Date: 04/04/2017	Seq No: 7436758							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.950 0 3.300 89.4 54.5 121

Sample ID: LCS-240540	Client ID:	Units: mg/Kg	Prep Date: 04/04/2017	Run No: 339939							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240540	Analysis Date: 04/04/2017	Seq No: 7436846							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 26.17 6.7 33.30 4.501 65.1 54.6 120
 Surr: Dioctylphthalate 3.081 0 3.330 92.5 54.5 121

Sample ID: 1703R63-003AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/04/2017	Run No: 339939							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240540	Analysis Date: 04/04/2017	Seq No: 7437423							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 39.04 10 50.97 18.34 40.6 40.6 122
 Surr: Dioctylphthalate 4.040 0 5.097 79.3 54.5 121

Sample ID: 1703R63-003AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/04/2017	Run No: 339939							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240540	Analysis Date: 04/04/2017	Seq No: 7437424							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 45.21 10 50.97 18.34 52.7 40.6 122 39.04 14.7 29.9
 Surr: Dioctylphthalate 4.680 0 5.097 91.8 54.5 121 4.040 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704246

ANALYTICAL QC SUMMARY REPORT

BatchID: 240659

Sample ID: MB-240659	Client ID:	Units: ug/Kg	Prep Date: 04/05/2017	Run No: 340191							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240659	Analysis Date: 04/06/2017	Seq No: 7443314							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-240659	Client ID:	Units: ug/Kg	Prep Date: 04/05/2017	Run No: 340191							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240659	Analysis Date: 04/06/2017	Seq No: 7443315							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4291	4000	5000	192.5	82.0	80	120				
Barium	4888	500	5000	38.00	97.0	80	120				
Beryllium	4580	50.0	5000	43.45	90.7	80	120				

Sample ID: 1704246-001AMS	Client ID: ASTCS-11	Units: mg/Kg-dry	Prep Date: 04/05/2017	Run No: 340191							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240659	Analysis Date: 04/06/2017	Seq No: 7443317							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4.345	4.17	4.166	1.103	77.8	75	125				
Barium	26.83	2.08	4.166	23.05	90.7	75	125				
Beryllium	4.225	0.21	4.166	0.2205	96.1	75	125				

Sample ID: 1704246-001AMSD	Client ID: ASTCS-11	Units: mg/Kg-dry	Prep Date: 04/05/2017	Run No: 340191							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240659	Analysis Date: 04/06/2017	Seq No: 7443318							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4.036	3.95	4.163	1.103	70.4	75	125	4.345	7.39	20	S
Barium	26.77	2.08	4.163	23.05	89.2	75	125	26.83	0.244	20	
Beryllium	4.246	0.21	4.163	0.2205	96.7	75	125	4.225	0.501	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 10, 2017

Stuart Anderson
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Stuart Anderson:

Order No: 1704626

Analytical Environmental Services, Inc. received 2 samples on 4/7/2017 2:48:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1704626

Date: 4/6/17 Page 2 of 1

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd</u> <u>SE B 10185</u> <u>Atlanta GA 30308</u>			ANALYSIS REQUESTED										Visit our website <u>www.aesatlanta.com</u> to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE: <u>770-296-9648</u>		SIGNATURE: <u>[Signature]</u>			PRESERVATION (See codes)										REMARKS				
SAMPLED BY: <u>Forrest Howard</u>		FAX:			I I														
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	I		I										
		DATE	TIME																
1	ASTCS-15	4/5/17	0930	X		SO	X	X											
2	ASTCS-16	4/5/17	1100	X		SO	X	X											
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION										RECEIPT	
1: <u>[Signature]</u>		4/7/17 1448		1: <u>[Signature]</u>		4/7/17 1448		PROJECT NAME: <u>Plant Kraft Excavation</u>										Total # of Containers	
2:				2:				PROJECT #:										Turnaround Time Request	
3:				3:				SITE ADDRESS: <u>Plant Kraft, Plant westworth GA</u>										<input type="checkbox"/> Standard 5 Business Days	
								SEND REPORT TO: <u>in comments</u>										<input type="checkbox"/> 2 Business Day Rush	
								INVOICE TO: <u>GPC Environmental Affairs</u>										<input checked="" type="checkbox"/> Next Business Day Rush	
								(IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same Day Rush (auth req.)	
SPECIAL INSTRUCTIONS/COMMENTS: <u>Report for</u> <u>Stephen Wilson @ Resolute env.com</u> <u>llh.millet @ southon.co.com</u> <u>forrest.howard @ Resolute env.com</u>				SHIPMENT METHOD				QUOTE #:										STATE PROGRAM (if any):	
				OUT / / VIA:				PO#:										E-mail? Y/N; Fax? Y/N	
				IN / / VIA:														DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV	
				<input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER															
				<input type="checkbox"/> GREYHOUND <input type="checkbox"/> OTHER															

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 10-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-15
Project Name: Plant Kraft Excavation	Collection Date: 4/5/2017 9:30:00 AM
Lab ID: 1704626-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B				(SW3050B)				
Arsenic	BRL	7.17		mg/Kg-dry	240759	5	04/10/2017 15:40	JS
Barium	64.5	2.76		mg/Kg-dry	240759	5	04/10/2017 15:40	JS
Beryllium	0.31	0.28		mg/Kg-dry	240759	5	04/10/2017 15:40	JS
DIESEL RANGE ORGANICS SW8015C				(SW3550C)				
TPH (Diesel Range Organics)	BRL	7.8		mg/Kg-dry	240751	1	04/10/2017 13:17	RF
Surr: Dioctylphthalate	77.9	54.5-121		%REC	240751	1	04/10/2017 13:17	RF
PERCENT MOISTURE D2216								
Percent Moisture	14.1	0		wt%	R340293	1	04/07/2017 16:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-16
Project Name: Plant Kraft Excavation	Collection Date: 4/5/2017 11:00:00 AM
Lab ID: 1704626-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.49		mg/Kg-dry	240759	5	04/10/2017 16:11	JS
Barium	166	2.88		mg/Kg-dry	240759	5	04/10/2017 16:11	JS
Beryllium	0.40	0.29		mg/Kg-dry	240759	5	04/10/2017 16:11	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	9.8		mg/Kg-dry	240751	1	04/10/2017 13:40	RF
Surr: Dioctylphthalate	81.9	54.5-121		%REC	240751	1	04/10/2017 13:40	RF
PERCENT MOISTURE D2216								
Percent Moisture	31.3	0		wt%	R340293	1	04/07/2017 16:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704626

ANALYTICAL QC SUMMARY REPORT

BatchID: 240751

Sample ID: MB-240751	Client ID:	Units: mg/Kg	Prep Date: 04/10/2017	Run No: 340356							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240751	Analysis Date: 04/10/2017	Seq No: 7447778							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.753 0 3.300 83.4 54.5 121

Sample ID: LCS-240751	Client ID:	Units: mg/Kg	Prep Date: 04/10/2017	Run No: 340356							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240751	Analysis Date: 04/10/2017	Seq No: 7447779							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 24.67 6.7 33.30 74.1 54.6 120
 Surr: Dioctylphthalate 2.780 0 3.330 83.5 54.5 121

Sample ID: 1704626-001AMS	Client ID: ASTCS-15	Units: mg/Kg-dry	Prep Date: 04/10/2017	Run No: 340356							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240751	Analysis Date: 04/10/2017	Seq No: 7449257							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 27.53 7.8 38.76 71.0 40.6 122
 Surr: Dioctylphthalate 3.015 0 3.876 77.8 54.5 121

Sample ID: 1704626-001AMSD	Client ID: ASTCS-15	Units: mg/Kg-dry	Prep Date: 04/10/2017	Run No: 340356							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240751	Analysis Date: 04/10/2017	Seq No: 7449258							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 27.36 7.8 38.76 70.6 40.6 122 27.53 0.612 29.9
 Surr: Dioctylphthalate 3.061 0 3.876 79.0 54.5 121 3.015 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704626

ANALYTICAL QC SUMMARY REPORT

BatchID: 240759

Sample ID: MB-240759	Client ID:	Units: ug/Kg	Prep Date: 04/07/2017	Run No: 340360							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240759	Analysis Date: 04/10/2017	Seq No: 7447961							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-240759	Client ID:	Units: ug/Kg	Prep Date: 04/07/2017	Run No: 340360							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240759	Analysis Date: 04/10/2017	Seq No: 7447962							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4292	1500	5000	122.0	83.4	80	120				
Barium	5010	500	5000		100	80	120				
Beryllium	4593	50.0	5000		91.9	80	120				

Sample ID: 1704626-001AMS	Client ID: ASTCS-15	Units: ug/Kg-dry	Prep Date: 04/07/2017	Run No: 340360							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240759	Analysis Date: 04/10/2017	Seq No: 7447964							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7611	5500	5497	3815	69.1	75	125				S
Barium	75750	2750	5497	64470	205	75	125				S
Beryllium	6011	275	5497	309.0	104	75	125				

Sample ID: 1704626-001AMSD	Client ID: ASTCS-15	Units: ug/Kg-dry	Prep Date: 04/07/2017	Run No: 340360							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240759	Analysis Date: 04/10/2017	Seq No: 7447965							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	9224	8280	5519	3815	98.0	75	125	7611	19.2	20	
Barium	101000	2760	5519	64470	662	75	125	75750	28.6	20	SR
Beryllium	5993	276	5519	309.0	103	75	125	6011	0.300	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 13, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704918

Analytical Environmental Services, Inc. received 9 samples on 4/12/2017 7:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-06
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2017 4:10:00 PM
Lab ID: 1704918-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	6.34		mg/Kg-dry	240900	1	04/12/2017 19:43	JS
Barium	22.3	0.42		mg/Kg-dry	240900	1	04/12/2017 19:43	JS
Beryllium	0.08	0.04		mg/Kg-dry	240900	1	04/12/2017 19:43	JS
PERCENT MOISTURE D2216								
Percent Moisture	12.8	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-07
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2017 4:15:00 PM
Lab ID: 1704918-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.91		mg/Kg-dry	240900	1	04/12/2017 19:49	JS
Barium	9.76	0.46		mg/Kg-dry	240900	1	04/12/2017 19:49	JS
Beryllium	0.05	0.05		mg/Kg-dry	240900	1	04/12/2017 19:49	JS
PERCENT MOISTURE D2216								
Percent Moisture	11.1	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-08
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 9:20:00 AM
Lab ID: 1704918-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.49		mg/Kg-dry	240900	1	04/12/2017 19:55	JS
Barium	4.07	0.50		mg/Kg-dry	240900	1	04/12/2017 19:55	JS
Beryllium	BRL	0.05		mg/Kg-dry	240900	1	04/12/2017 19:55	JS
PERCENT MOISTURE D2216								
Percent Moisture	20.3	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-09
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 9:25:00 AM
Lab ID: 1704918-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.05		mg/Kg-dry	240900	1	04/12/2017 20:02	JS
Barium	28.2	0.54		mg/Kg-dry	240900	1	04/12/2017 20:02	JS
Beryllium	0.11	0.05		mg/Kg-dry	240900	1	04/12/2017 20:02	JS
PERCENT MOISTURE D2216								
Percent Moisture	25.9	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-17
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 10:20:00 AM
Lab ID: 1704918-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	8.20	7.56		mg/Kg-dry	240900	1	04/12/2017 20:08	JS
Barium	23.1	0.50		mg/Kg-dry	240900	1	04/12/2017 20:08	JS
Beryllium	0.29	0.05		mg/Kg-dry	240900	1	04/12/2017 20:08	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.6		mg/Kg-dry	240907	1	04/12/2017 17:01	RF
Surr: Dioctylphthalate	77.7	54.5-121		%REC	240907	1	04/12/2017 17:01	RF
PERCENT MOISTURE D2216								
Percent Moisture	22.2	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-18
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 10:25:00 AM
Lab ID: 1704918-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	6.98		mg/Kg-dry	240900	1	04/12/2017 20:14	JS
Barium	30.1	0.47		mg/Kg-dry	240900	1	04/12/2017 20:14	JS
Beryllium	0.26	0.05		mg/Kg-dry	240900	1	04/12/2017 20:14	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.4		mg/Kg-dry	240907	1	04/12/2017 17:24	RF
Surr: Dioctylphthalate	80.2	54.5-121		%REC	240907	1	04/12/2017 17:24	RF
PERCENT MOISTURE D2216								
Percent Moisture	20.6	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-10
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 3:25:00 PM
Lab ID: 1704918-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.44		mg/Kg-dry	240900	1	04/12/2017 20:20	JS
Barium	17.7	0.56		mg/Kg-dry	240900	1	04/12/2017 20:20	JS
Beryllium	0.07	0.06		mg/Kg-dry	240900	1	04/12/2017 20:20	JS
PERCENT MOISTURE D2216								
Percent Moisture	12.3	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-19
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 3:35:00 PM
Lab ID: 1704918-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.97		mg/Kg-dry	240900	1	04/12/2017 20:26	JS
Barium	20.3	0.53		mg/Kg-dry	240900	1	04/12/2017 20:26	JS
Beryllium	0.12	0.05		mg/Kg-dry	240900	1	04/12/2017 20:26	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.6		mg/Kg-dry	240907	1	04/12/2017 17:47	RF
Surr: Dioctylphthalate	81.6	54.5-121		%REC	240907	1	04/12/2017 17:47	RF
PERCENT MOISTURE D2216								
Percent Moisture	12.2	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-20
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 3:40:00 PM
Lab ID: 1704918-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.20		mg/Kg-dry	240900	1	04/12/2017 20:33	JS
Barium	85.4	0.48		mg/Kg-dry	240900	1	04/12/2017 20:33	JS
Beryllium	0.15	0.05		mg/Kg-dry	240900	1	04/12/2017 20:33	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.1		mg/Kg-dry	240907	1	04/12/2017 18:09	RF
Surr: Dioctylphthalate	84.6	54.5-121		%REC	240907	1	04/12/2017 18:09	RF
PERCENT MOISTURE D2216								
Percent Moisture	17.8	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704918

ANALYTICAL QC SUMMARY REPORT

BatchID: 240900

Sample ID: MB-240900	Client ID:	Units: ug/Kg	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453501							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-240900	Client ID:	Units: ug/Kg	Prep Date: 04/12/2017	Run No: 340568							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453502							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4317	1000	5000	199.8	82.3	80	120				
Barium	4922	500	5000		98.4	80	120				
Beryllium	4549	50.0	5000		91.0	80	120				

Sample ID: 1704917-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453504							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7694	7690	5492	2373	96.9	75	125				
Barium	40420	549	5492	33980	117	75	125				
Beryllium	5429	54.9	5492	196.2	95.3	75	125				

Sample ID: 1704917-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453505							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7405	7320	5230	2373	96.2	75	125	7694	3.83	20	
Barium	40670	523	5230	33980	128	75	125	40420	0.603	20	S
Beryllium	5298	52.3	5230	196.2	97.5	75	125	5429	2.45	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704918

ANALYTICAL QC SUMMARY REPORT

BatchID: 240907

Sample ID: MB-240907	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7453229							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.743 0 3.300 83.1 54.5 121

Sample ID: LCS-240907	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7453407							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 23.91 6.7 33.30 71.8 54.6 120
 Surr: Dioctylphthalate 2.752 0 3.330 82.6 54.5 121

Sample ID: 1704784-002CMS	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7454711							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 84.01 6.7 33.30 90.34 -19.0 40.6 122 S
 Surr: Dioctylphthalate 2.806 0 3.330 84.3 54.5 121

Sample ID: 1704784-002CMSD	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7454712							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 93.66 6.7 33.30 90.34 9.98 40.6 122 84.01 10.9 29.9 S
 Surr: Dioctylphthalate 3.100 0 3.330 93.1 54.5 121 2.806 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



May 19, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705G87

Analytical Environmental Services, Inc. received 3 samples on 5/18/2017 10:05:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/16-06/30/17 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 19-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-11
Project Name: Plant Kraft Excavation	Collection Date: 5/17/2017 2:00:00 PM
Lab ID: 1705G87-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.48		mg/Kg-dry	242812	5	05/18/2017 15:52	JR
Barium	21.4	2.83		mg/Kg-dry	242812	5	05/18/2017 15:52	JR
Beryllium	0.17	0.14		mg/Kg-dry	242812	5	05/18/2017 15:52	JR
PERCENT MOISTURE D2216								
Percent Moisture	13.2	0		wt%	R343511	1	05/19/2017 10:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-12
Project Name: Plant Kraft Excavation	Collection Date: 5/17/2017 2:05:00 PM
Lab ID: 1705G87-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	18.1	7.88		mg/Kg-dry	242812	5	05/19/2017 15:18	JR
Barium	38.3	2.63		mg/Kg-dry	242812	5	05/19/2017 15:18	JR
Beryllium	0.36	0.26		mg/Kg-dry	242812	5	05/19/2017 15:18	JR
PERCENT MOISTURE D2216								
Percent Moisture	11.1	0		wt%	R343511	1	05/19/2017 10:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-13
Project Name: Plant Kraft Excavation	Collection Date: 5/17/2017 2:10:00 PM
Lab ID: 1705G87-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	16.2	8.12		mg/Kg-dry	242812	5	05/19/2017 15:24	JR
Barium	78.3	2.71		mg/Kg-dry	242812	5	05/19/2017 15:24	JR
Beryllium	0.31	0.27		mg/Kg-dry	242812	5	05/19/2017 15:24	JR
PERCENT MOISTURE D2216								
Percent Moisture	7.80	0		wt%	R343511	1	05/19/2017 10:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705G87

ANALYTICAL QC SUMMARY REPORT

BatchID: 242812

Sample ID: MB-242812	Client ID:	Units: ug/Kg	Prep Date: 05/18/2017	Run No: 343444							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 242812	Analysis Date: 05/18/2017	Seq No: 7529679							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-242812	Client ID:	Units: ug/Kg	Prep Date: 05/18/2017	Run No: 343444							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242812	Analysis Date: 05/18/2017	Seq No: 7529672							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4518	1500	5000		90.4	80	120				
Barium	4698	500	5000		94.0	80	120				
Beryllium	4326	50.0	5000		86.5	80	120				

Sample ID: 1705G87-001AMS	Client ID: CPCS-11	Units: mg/Kg-dry	Prep Date: 05/18/2017	Run No: 343444							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242812	Analysis Date: 05/18/2017	Seq No: 7529674							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	11.99	8.64	5.760	3.226	152	75	125				S
Barium	29.11	2.88	5.760	21.42	133	75	125				S
Beryllium	5.335	0.29	5.760	0.1662	89.7	75	125				

Sample ID: 1705G87-001AMSD	Client ID: CPCS-11	Units: mg/Kg-dry	Prep Date: 05/18/2017	Run No: 343444							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242812	Analysis Date: 05/18/2017	Seq No: 7529675							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	8.814	8.58	5.718	3.226	97.7	75	125	11.99	30.5	20	R
Barium	26.84	2.86	5.718	21.42	94.7	75	125	29.11	8.09	20	
Beryllium	5.589	0.29	5.718	0.1662	94.8	75	125	5.335	4.65	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



May 18, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705E31

Analytical Environmental Services, Inc. received 6 samples on 5/16/2017 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/16-06/30/17 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and

Tyrel Heckendorf
Project Manager



COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE B 10185 Atlanta, GA 30308</u>				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																																							
PHONE: <u>770-296-9048</u>		FAX: <u>Forrest.Howard@Resolution.com</u>				<table border="1" style="width:100%; height:100%; text-align: center;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">EPA 821-B-12-001</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>													EPA 821-B-12-001																																						
EPA 821-B-12-001																																																									
SAMPLED BY: <u>Forrest Howard</u>		SIGNATURE:				PRESERVATION (See codes)										REMARKS																																									
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)																																																			
1	C PCS-01	5/11/17	1350	X		SO	X													1																																					
2	C PCS-02	5/11/17	1355	X		SO	X													1																																					
3	C PCS-03	5/15/17	1300	X		SO	X													1																																					
4	C PCS-04	5/15/17	1305	X		SO	X													1																																					
5	C PCS-05	5/15/17	1390	X		SO	X													1																																					
6	C PCS-06	5/15/17	1315	X		SO	X													1																																					
7																																																									
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RELINQUISHED BY:		DATE/TIME: <u>5/15/17</u>	RECEIVED BY: 1:		DATE/TIME: <u>1700</u>	PROJECT INFORMATION										RECEIPT																																									
2:			2:			PROJECT NAME: <u>Plant Kraft Excavation</u>										Total # of Containers	<u>6</u>																																								
3:			3:			PROJECT #: _____										Turnaround Time Request	<u>74</u>																																								
						SITE ADDRESS: <u>Plant Kraft, Pent Wentworth GA</u>										<input type="checkbox"/> Standard 5 Business Days																																									
						SEND REPORT TO: <u>mcomments</u>										<input type="checkbox"/> 2 Business Day Rush																																									
						INVOICE TO: <u>GPC Environmental Services</u>										<input checked="" type="checkbox"/> Next Business Day Rush																																									
						(IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same Day Rush (auth req.)																																									
SPECIAL INSTRUCTIONS/COMMENTS: <u>Report to: Forrest Howard Stephen Willson Lea Miller Nick Hymen</u>			SHIPMENT METHOD:			OUT / / VIA: _____										<input type="checkbox"/> Other _____																																									
			IN / / VIA: _____			CLIENT FedEx UPS MAIL COURIER										STATE PROGRAM (if any): _____																																									
			GREYHOUND OTHER _____			QUOTE #: _____ PO#: _____										E-mail? _____ Fax? _____																																									
														DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																																											

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1705E31

Case Narrative

Sample Receiving Non-conformance:

Sample "CPCS-01" was received with a cracked lid. The laboratory proceeded with the analyses, since the cracked portion didn't breach the seal of the container lid.

Analytical Environmental Services, Inc

Date: 18-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-01
Project Name: Plant Kraft Excavation	Collection Date: 5/11/2017 1:50:00 PM
Lab ID: 1705E31-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.19		mg/Kg-dry	242684	5	05/17/2017 13:29	JR
Barium	170	2.40		mg/Kg-dry	242684	5	05/17/2017 13:29	JR
Beryllium	1.79	0.24		mg/Kg-dry	242684	5	05/17/2017 13:29	JR
PERCENT MOISTURE D2216								
Percent Moisture	32.6	0		wt%	R343330	1	05/17/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-02
Project Name: Plant Kraft Excavation	Collection Date: 5/11/2017 1:55:00 PM
Lab ID: 1705E31-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	45.4	5.78		mg/Kg-dry	242684	5	05/17/2017 13:35	JR
Barium	364	1.93		mg/Kg-dry	242684	5	05/17/2017 13:35	JR
Beryllium	0.41	0.19		mg/Kg-dry	242684	5	05/17/2017 13:35	JR
PERCENT MOISTURE D2216								
Percent Moisture	2.82	0		wt%	R343330	1	05/17/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-03
Project Name: Plant Kraft Excavation	Collection Date: 5/15/2017 1:00:00 PM
Lab ID: 1705E31-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.16		mg/Kg-dry	242684	5	05/17/2017 13:41	JR
Barium	34.5	2.39		mg/Kg-dry	242684	5	05/17/2017 13:41	JR
Beryllium	0.66	0.24		mg/Kg-dry	242684	5	05/17/2017 13:41	JR
PERCENT MOISTURE D2216								
Percent Moisture	13.4	0		wt%	R343330	1	05/17/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-04
Project Name: Plant Kraft Excavation	Collection Date: 5/15/2017 1:05:00 PM
Lab ID: 1705E31-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.75		mg/Kg-dry	242684	5	05/17/2017 13:47	JR
Barium	23.6	2.25		mg/Kg-dry	242684	5	05/17/2017 13:47	JR
Beryllium	0.30	0.22		mg/Kg-dry	242684	5	05/17/2017 13:47	JR
PERCENT MOISTURE D2216								
Percent Moisture	12.1	0		wt%	R343330	1	05/17/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-05
Project Name: Plant Kraft Excavation	Collection Date: 5/15/2017 1:10:00 PM
Lab ID: 1705E31-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.89		mg/Kg-dry	242684	5	05/17/2017 13:53	JR
Barium	12.2	1.96		mg/Kg-dry	242684	5	05/17/2017 13:53	JR
Beryllium	0.29	0.20		mg/Kg-dry	242684	5	05/17/2017 13:53	JR
PERCENT MOISTURE D2216								
Percent Moisture	13.8	0		wt%	R343330	1	05/17/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705E31

ANALYTICAL QC SUMMARY REPORT

BatchID: 242684

Sample ID: MB-242684	Client ID:	Units: ug/Kg	Prep Date: 05/16/2017	Run No: 343218							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/16/2017	Seq No: 7524095							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-242684	Client ID:	Units: ug/Kg	Prep Date: 05/16/2017	Run No: 343218							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/16/2017	Seq No: 7524096							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5275	750	5000		105	80	120				
Barium	4746	500	5000		94.9	80	120				
Beryllium	4418	50.0	5000		88.4	80	120				

Sample ID: 1705E30-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 05/16/2017	Run No: 343218							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/16/2017	Seq No: 7524100							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	10.99	7.43	4.954	9.261	34.8	75	125				S
Barium	98.33	4.95	4.954	112.1	-278	75	125				S

Sample ID: 1705E30-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 05/16/2017	Run No: 343287							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/17/2017	Seq No: 7526107							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Beryllium	6.167	0.25	4.954	0.8709	107	75	125				
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Sample ID: 1705E30-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 05/16/2017	Run No: 343218							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/16/2017	Seq No: 7524101							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705E31

ANALYTICAL QC SUMMARY REPORT

BatchID: 242684

Sample ID: 1705E30-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 05/16/2017	Run No: 343218							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/16/2017	Seq No: 7524101							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	11.41	7.40	4.934	9.261	43.5	75	125	10.99	3.77	20	S
Barium	114.0	4.93	4.934	112.1	37.5	75	125	98.33	14.7	20	S

Sample ID: 1705E30-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 05/16/2017	Run No: 343287							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/17/2017	Seq No: 7526108							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Beryllium	6.269	0.25	4.934	0.8709	109	75	125	6.167	1.64	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



May 18, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705F62

Analytical Environmental Services, Inc. received 4 samples on 5/17/2017 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/16-06/30/17 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 18-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-07
Project Name: Plant Kraft Excavation	Collection Date: 5/16/2017 9:00:00 AM
Lab ID: 1705F62-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	17.8	8.01		mg/Kg-dry	242684	5	05/17/2017 17:05	JR
Barium	16.4	2.67		mg/Kg-dry	242684	5	05/17/2017 17:05	JR
Beryllium	0.11	0.05		mg/Kg-dry	242684	5	05/17/2017 17:05	JR
PERCENT MOISTURE D2216								
Percent Moisture	22.1	0		wt%	R343440	1	05/18/2017 09:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-08
Project Name: Plant Kraft Excavation	Collection Date: 5/16/2017 9:05:00 AM
Lab ID: 1705F62-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.84		mg/Kg-dry	242684	5	05/17/2017 16:47	JR
Barium	16.4	2.95		mg/Kg-dry	242684	5	05/17/2017 16:47	JR
Beryllium	0.26	0.06		mg/Kg-dry	242684	5	05/17/2017 16:47	JR
PERCENT MOISTURE D2216								
Percent Moisture	20.5	0		wt%	R343440	1	05/18/2017 09:00	JC

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-09
Project Name: Plant Kraft Excavation	Collection Date: 5/16/2017 3:10:00 PM
Lab ID: 1705F62-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.08		mg/Kg-dry	242684	5	05/17/2017 16:53	JR
Barium	25.5	2.36		mg/Kg-dry	242684	5	05/17/2017 16:53	JR
Beryllium	0.20	0.05		mg/Kg-dry	242684	5	05/17/2017 16:53	JR
PERCENT MOISTURE D2216								
Percent Moisture	21.1	0		wt%	R343440	1	05/18/2017 09:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-May-17

Client: Georgia Power Company	Client Sample ID: CPCS-10
Project Name: Plant Kraft Excavation	Collection Date: 5/16/2017 3:15:00 PM
Lab ID: 1705F62-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	173	6.46		mg/Kg-dry	242684	5	05/17/2017 16:59	JR
Barium	45.9	2.15		mg/Kg-dry	242684	5	05/17/2017 16:59	JR
Beryllium	0.12	0.04		mg/Kg-dry	242684	5	05/17/2017 16:59	JR
PERCENT MOISTURE D2216								
Percent Moisture	11.7	0		wt%	R343440	1	05/18/2017 09:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705F62

ANALYTICAL QC SUMMARY REPORT

BatchID: 242684

Sample ID: MB-242684	Client ID:	Units: ug/Kg	Prep Date: 05/16/2017	Run No: 343218							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/16/2017	Seq No: 7524095							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-242684	Client ID:	Units: ug/Kg	Prep Date: 05/16/2017	Run No: 343218							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/16/2017	Seq No: 7524096							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5275	750	5000		105	80	120				
Barium	4746	500	5000		94.9	80	120				
Beryllium	4418	50.0	5000		88.4	80	120				

Sample ID: 1705E30-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/16/2017	Run No: 343218							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/16/2017	Seq No: 7524100							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	10990	7430	4954	9261	34.8	75	125				S
Barium	98330	4950	4954	112100	-278	75	125				S

Sample ID: 1705E30-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/16/2017	Run No: 343287							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/17/2017	Seq No: 7526107							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Beryllium	6167	248	4954	870.9	107	75	125				
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Sample ID: 1705E30-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/16/2017	Run No: 343218							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/16/2017	Seq No: 7524101							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705F62

ANALYTICAL QC SUMMARY REPORT

BatchID: 242684

Sample ID: 1705E30-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/16/2017	Run No: 343218							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/16/2017	Seq No: 7524101							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	11410	7400	4934	9261	43.5	75	125	10990	3.77	20	S
Barium	114000	4930	4934	112100	37.5	75	125	98330	14.7	20	S

Sample ID: 1705E30-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/16/2017	Run No: 343287							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242684	Analysis Date: 05/17/2017	Seq No: 7526108							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Beryllium	6269	247	4934	870.9	109	75	125	6167	1.64	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 25, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1804K35

Analytical Environmental Services, Inc. received 11 samples on 4/21/2018 10:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-28
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 3:28:00 PM
Lab ID: 1804K35-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.36		mg/Kg-dry	259571	20	04/24/2018 15:18	DP
Barium	87.8	0.52		mg/Kg-dry	259571	20	04/24/2018 15:18	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.84	0		wt%	R368461	1	04/23/2018 13:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-29
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 3:36:00 PM
Lab ID: 1804K35-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.46		mg/Kg-dry	259571	20	04/24/2018 15:20	DP
Barium	201	0.50		mg/Kg-dry	259571	20	04/24/2018 15:20	DP
PERCENT MOISTURE D2216								
Percent Moisture	13.5	0		wt%	R368461	1	04/23/2018 13:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-30
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 3:46:00 PM
Lab ID: 1804K35-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	19.5	7.49		mg/Kg-dry	259571	20	04/24/2018 15:22	DP
Barium	496	0.63		mg/Kg-dry	259571	20	04/24/2018 15:22	DP
PERCENT MOISTURE D2216								
Percent Moisture	27.4	0		wt%	R368461	1	04/23/2018 13:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-31
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 4:00:00 PM
Lab ID: 1804K35-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	14.0	7.39		mg/Kg-dry	259571	20	04/24/2018 15:24	DP
Barium	147	0.51		mg/Kg-dry	259571	20	04/24/2018 15:24	DP
PERCENT MOISTURE D2216								
Percent Moisture	17.8	0		wt%	R368461	1	04/23/2018 13:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-32
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 4:12:00 PM
Lab ID: 1804K35-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	10.7	7.36		mg/Kg-dry	259571	20	04/24/2018 15:26	DP
Barium	202	0.64		mg/Kg-dry	259571	20	04/24/2018 15:26	DP
PERCENT MOISTURE D2216								
Percent Moisture	31.6	0		wt%	R368461	1	04/23/2018 13:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-33
Project Name: Plant Kraft Excavation	Collection Date: 4/20/2018 7:58:00 AM
Lab ID: 1804K35-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.49		mg/Kg-dry	259571	20	04/24/2018 15:28	DP
Barium	174	0.51		mg/Kg-dry	259571	20	04/24/2018 15:28	DP
PERCENT MOISTURE D2216								
Percent Moisture	13.6	0		wt%	R368461	1	04/23/2018 13:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-35
Project Name: Plant Kraft Excavation	Collection Date: 4/20/2018 8:50:00 AM
Lab ID: 1804K35-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	43.0	7.46		mg/Kg-dry	259571	20	04/24/2018 15:38	DP
Barium	348	0.57		mg/Kg-dry	259571	20	04/24/2018 15:38	DP
PERCENT MOISTURE D2216								
Percent Moisture	15.8	0		wt%	R368461	1	04/23/2018 13:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-37
Project Name: Plant Kraft Excavation	Collection Date: 4/20/2018 9:12:00 AM
Lab ID: 1804K35-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.47		mg/Kg-dry	259571	20	04/24/2018 15:41	DP
Barium	116	0.54		mg/Kg-dry	259571	20	04/24/2018 15:41	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.9	0		wt%	R368461	1	04/23/2018 13:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **GA POWER**

AES Work Order Number: **1804K35**

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 4/21/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). ES 4/21/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). ES 4/21/18
Page 14 of 15



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1804K35

ANALYTICAL QC SUMMARY REPORT

BatchID: 259571

Sample ID: MB-259571	Client ID:	Units: ug/Kg	Prep Date: 04/24/2018	Run No: 368664							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 259571	Analysis Date: 04/24/2018	Seq No: 8163128							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-259571	Client ID:	Units: ug/Kg	Prep Date: 04/24/2018	Run No: 368664							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259571	Analysis Date: 04/24/2018	Seq No: 8163129							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4835 4500 5000 201.2 92.7 80 120
 Barium 5038 500 5000 101 80 120

Sample ID: 1804K35-001AMS	Client ID: DD-27	Units: mg/Kg-dry	Prep Date: 04/24/2018	Run No: 368664							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259571	Analysis Date: 04/24/2018	Seq No: 8163131							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 10.55 7.89 4.109 6.897 88.8 75 125
 Barium 265.0 0.53 4.109 265.4 -8.38 75 125 S

Sample ID: 1804K35-001AMSD	Client ID: DD-27	Units: mg/Kg-dry	Prep Date: 04/24/2018	Run No: 368664							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 259571	Analysis Date: 04/24/2018	Seq No: 8163134							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 9.365 7.91 4.122 6.897 59.9 75 125 10.55 11.9 20 S
 Barium 231.8 0.53 4.122 265.4 -815 75 125 265.0 13.4 20 S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 01, 2018

Lea Millet
Georgia Power Company

241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1804P66

Analytical Environmental Services, Inc. received 22 samples on 4/27/2018 9:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager



CHAIN OF CUSTODY

COMPANY: <i>Georgia Power Company</i>		ADDRESS: <i>241 Ralph McGill Blvd NE 31018 Atlanta, GA 30308</i>					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers					
PHONE: <i>678-548-9415</i>		EMAIL: <i>Kevin.Stegerson@aesatlanta.com</i>					PRESERVATION (see codes)												REMARKS				
SAMPLED BY: <i>Kevin Stegerson</i>		SIGNATURE: <i>Kevin Stegerson</i>																					
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)																	
		DATE	TIME																				
1	<i>DCS-62</i>	<i>4/25/18</i>	<i>1508</i>	<i>X</i>		<i>SO</i>	<i>X</i>																
2	<i>DCS-63SD</i>	<i>4/25/18</i>	<i>1518</i>	<i>X</i>		<i>SO</i>	<i>X</i>																
3	<i>DCS-64</i>	<i>4/25/18</i>	<i>1600</i>	<i>X</i>		<i>SO</i>	<i>X</i>																
4	<i>DCS-65SD</i>	<i>4/25/18</i>	<i>1604</i>	<i>X</i>		<i>SO</i>	<i>X</i>																
5	<i>DCS-66</i>	<i>4/26/18</i>	<i>0754</i>	<i>X</i>		<i>SO</i>	<i>X</i>																
6	<i>DCS-67</i>	<i>4/26/18</i>	<i>0802</i>	<i>X</i>		<i>SO</i>	<i>X</i>																
7	<i>DCS-68</i>	<i>4/26/18</i>	<i>0830</i>	<i>X</i>		<i>SO</i>	<i>X</i>																
8	<i>DCS-69</i>	<i>4/26/18</i>	<i>0834</i>	<i>X</i>		<i>SO</i>	<i>X</i>																
9																							
10																							
11																							
12																							
13																							
14																							
RELINQUISHED BY: <i>Kevin Stegerson 4/26/18</i>		DATE/TIME: <i>4/26/18</i>		RECEIVED BY: <i>Theresa Soler 4/27/18 930</i>		DATE/TIME: <i>4/27/18 930</i>		PROJECT INFORMATION										RECEIPT					
1. <i>Kevin Stegerson 116</i>				2. <i>Theresa Soler</i>				PROJECT NAME: <i>Plant Kraft Expansion</i>										Total # of Containers	8				
2.				3.				PROJECT #:										Turnaround Time (TAT) Request					
3.								SITE ADDRESS: <i>155 Crossgate Road, Port Wentworth</i>										<input type="checkbox"/> Standard 5 Business Days					
SPECIAL INSTRUCTIONS/COMMENTS: <i>Report to: Kevin Stegerson Lee Miller Stegerson Wilson Theresa Soler</i>				SHIPMENT METHOD				SEND REPORT TO: <i>See Comments</i>										<input type="checkbox"/> 2 Business Day Rush					
				OUT: <i>4/26/18</i>		VIA:		INVOICE TO: <i>GE Environmental</i>										<input checked="" type="checkbox"/> Next Business Day Rush					
				IN: <i>/ /</i>		VIA:		(IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same-Day Rush (auth req.)					
				client: <i>FedEx</i>		UPS US mail courier Greyhound		QUOTE #:										<input type="checkbox"/> Other					
				other:				PO#:										STATE PROGRAM (if any):					
																		E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>					
																		DATA PACKAGE: <input type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> O					

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: HH = Hydrochloric acid + ice I = Ice only N = Nitric acid S-H = Sulfuric acid + ice S/M-H = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-63SW
Project Name: Plant Kraft Excavation	Collection Date: 4/25/2018 3:18:00 PM
Lab ID: 1804P66-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	11.6	11.1		mg/Kg-dry	259857	50	04/30/2018 18:14	DP
Barium	113	2.22		mg/Kg-dry	259857	50	04/30/2018 18:14	DP
PERCENT MOISTURE D2216								
Percent Moisture	19.8	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-64
Project Name: Plant Kraft Excavation	Collection Date: 4/25/2018 4:00:00 PM
Lab ID: 1804P66-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.38		mg/Kg-dry	259857	50	04/30/2018 18:16	DP
Barium	40.0	2.05		mg/Kg-dry	259857	50	04/30/2018 18:16	DP
PERCENT MOISTURE D2216								
Percent Moisture	11.7	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-65SW
Project Name: Plant Kraft Excavation	Collection Date: 4/25/2018 4:04:00 PM
Lab ID: 1804P66-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.37		mg/Kg-dry	259857	50	04/30/2018 18:18	DP
Barium	70.4	2.23		mg/Kg-dry	259857	50	04/30/2018 18:18	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.7	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-66
Project Name: Plant Kraft Excavation	Collection Date: 4/26/2018 7:54:00 AM
Lab ID: 1804P66-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.23		mg/Kg-dry	259857	50	04/30/2018 18:20	DP
Barium	135	2.13		mg/Kg-dry	259857	50	04/30/2018 18:20	DP
PERCENT MOISTURE D2216								
Percent Moisture	11.1	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-67
Project Name: Plant Kraft Excavation	Collection Date: 4/26/2018 8:02:00 AM
Lab ID: 1804P66-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	22.0	7.38		mg/Kg-dry	259857	50	04/30/2018 18:22	DP
Barium	229	2.17		mg/Kg-dry	259857	50	04/30/2018 18:22	DP
PERCENT MOISTURE D2216								
Percent Moisture	16.6	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-68
Project Name: Plant Kraft Excavation	Collection Date: 4/26/2018 8:30:00 AM
Lab ID: 1804P66-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	259857	50	04/30/2018 18:24	DP
Barium	75.0	3.34		mg/Kg-dry	259857	50	04/30/2018 18:24	DP
PERCENT MOISTURE D2216								
Percent Moisture	43.6	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-69
Project Name: Plant Kraft Excavation	Collection Date: 4/26/2018 8:34:00 AM
Lab ID: 1804P66-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.29		mg/Kg-dry	259857	50	04/30/2018 18:26	DP
Barium	74.0	2.06		mg/Kg-dry	259857	50	04/30/2018 18:26	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.27	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-48SW
Project Name: Plant Kraft Excavation	Collection Date: 4/24/2018 10:14:00 AM
Lab ID: 1804P66-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.38		mg/Kg-dry	259857	50	04/30/2018 18:28	DP
Barium	25.1	2.05		mg/Kg-dry	259857	50	04/30/2018 18:28	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.6	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-49SW
Project Name: Plant Kraft Excavation	Collection Date: 4/24/2018 10:16:00 AM
Lab ID: 1804P66-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	73.5		mg/Kg-dry	259857	50	04/30/2018 18:30	DP
Barium	11.3	1.99		mg/Kg-dry	259857	50	04/30/2018 18:30	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.3	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-50SW
Project Name: Plant Kraft Excavation	Collection Date: 4/24/2018 10:18:00 AM
Lab ID: 1804P66-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.41		mg/Kg-dry	259857	50	04/30/2018 18:32	DP
Barium	21.2	2.12		mg/Kg-dry	259857	50	04/30/2018 18:32	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.91	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-51
Project Name: Plant Kraft Excavation	Collection Date: 4/24/2018 2:32:00 PM
Lab ID: 1804P66-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.42		mg/Kg-dry	259857	50	04/30/2018 18:40	DP
Barium	71.6	2.06		mg/Kg-dry	259857	50	04/30/2018 18:40	DP
PERCENT MOISTURE D2216								
Percent Moisture	13.5	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-52
Project Name: Plant Kraft Excavation	Collection Date: 4/24/2018 2:38:00 PM
Lab ID: 1804P66-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.28		mg/Kg-dry	259857	50	04/30/2018 18:42	DP
Barium	107	2.14		mg/Kg-dry	259857	50	04/30/2018 18:42	DP
PERCENT MOISTURE D2216								
Percent Moisture	17.2	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-53
Project Name: Plant Kraft Excavation	Collection Date: 4/24/2018 3:06:00 PM
Lab ID: 1804P66-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.26		mg/Kg-dry	259857	50	04/30/2018 18:44	DP
Barium	77.1	2.14		mg/Kg-dry	259857	50	04/30/2018 18:44	DP
PERCENT MOISTURE D2216								
Percent Moisture	13.6	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-54
Project Name: Plant Kraft Excavation	Collection Date: 4/24/2018 3:36:00 PM
Lab ID: 1804P66-015	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	259857	50	04/30/2018 18:46	DP
Barium	72.6	2.10		mg/Kg-dry	259857	50	04/30/2018 18:46	DP
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-55
Project Name: Plant Kraft Excavation	Collection Date: 4/24/2018 4:12:00 PM
Lab ID: 1804P66-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.41		mg/Kg-dry	259857	50	04/30/2018 18:47	DP
Barium	90.9	2.18		mg/Kg-dry	259857	50	04/30/2018 18:47	DP
PERCENT MOISTURE D2216								
Percent Moisture	12.0	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-56
Project Name: Plant Kraft Excavation	Collection Date: 4/25/2018 8:36:00 AM
Lab ID: 1804P66-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	259857	50	04/30/2018 18:49	DP
Barium	40.9	2.06		mg/Kg-dry	259857	50	04/30/2018 18:49	DP
PERCENT MOISTURE D2216								
Percent Moisture	12.0	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-57
Project Name: Plant Kraft Excavation	Collection Date: 4/25/2018 12:48:00 PM
Lab ID: 1804P66-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.30		mg/Kg-dry	259857	50	04/30/2018 18:51	DP
Barium	76.3	2.15		mg/Kg-dry	259857	50	04/30/2018 18:51	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.7	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-58
Project Name: Plant Kraft Excavation	Collection Date: 4/25/2018 12:52:00 PM
Lab ID: 1804P66-019	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.15		mg/Kg-dry	259857	50	04/30/2018 18:53	DP
Barium	108	1.99		mg/Kg-dry	259857	50	04/30/2018 18:53	DP
PERCENT MOISTURE D2216								
Percent Moisture	8.61	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-59
Project Name: Plant Kraft Excavation	Collection Date: 4/25/2018 1:02:00 PM
Lab ID: 1804P66-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.32		mg/Kg-dry	259857	50	04/30/2018 18:55	DP
Barium	39.6	1.88		mg/Kg-dry	259857	50	04/30/2018 18:55	DP
PERCENT MOISTURE D2216								
Percent Moisture	5.15	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-60
Project Name: Plant Kraft Excavation	Collection Date: 4/25/2018 1:06:00 PM
Lab ID: 1804P66-021	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.39		mg/Kg-dry	259858	20	04/30/2018 15:13	DP
Barium	84.5	0.80		mg/Kg-dry	259858	20	04/30/2018 15:13	DP
PERCENT MOISTURE D2216								
Percent Moisture	8.19	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-18

Client: Georgia Power Company	Client Sample ID: DCS-61
Project Name: Plant Kraft Excavation	Collection Date: 4/25/2018 1:58:00 PM
Lab ID: 1804P66-022	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.44		mg/Kg-dry	259858	20	04/30/2018 15:06	DP
Barium	20.8	0.88		mg/Kg-dry	259858	20	04/30/2018 15:06	DP
PERCENT MOISTURE D2216								
Percent Moisture	13.6	0		wt%	R368935	1	04/27/2018 15:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1804P66

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 5.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AJJ 4/27/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). PJM 4/27/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). PJM 4/27/18
Page 26 of 28



Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1804P66

ANALYTICAL QC SUMMARY REPORT

BatchID: 259857

Sample ID: MB-259857	Client ID:	Units: ug/Kg	Prep Date: 04/30/2018	Run No: 369108							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 259857	Analysis Date: 04/30/2018	Seq No: 8174582							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-259857	Client ID:	Units: ug/Kg	Prep Date: 04/30/2018	Run No: 369108							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259857	Analysis Date: 04/30/2018	Seq No: 8174583							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5912 5500 5000 107.3 116 80 120
 Barium 5062 500 5000 101 80 120

Sample ID: 1804P66-001AMS	Client ID: DCS-62	Units: mg/Kg-dry	Prep Date: 04/30/2018	Run No: 369108							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259857	Analysis Date: 04/30/2018	Seq No: 8174768							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.826 6.17 4.115 9.853 -49.3 75 125 S
 Barium 83.29 20.6 4.115 82.35 22.9 75 125 S

Sample ID: 1804P66-001AMSD	Client ID: DCS-62	Units: mg/Kg-dry	Prep Date: 04/30/2018	Run No: 369108							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 259857	Analysis Date: 04/30/2018	Seq No: 8174586							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 9.294 9.05 4.111 9.853 -13.6 75 125 7.826 17.1 20 S
 Barium 93.09 8.22 4.111 82.35 261 75 125 83.29 11.1 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1804P66

ANALYTICAL QC SUMMARY REPORT

BatchID: 259858

Sample ID: MB-259858	Client ID:	Units: ug/Kg	Prep Date: 04/30/2018	Run No: 369107							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 259858	Analysis Date: 04/30/2018	Seq No: 8174532							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-259858	Client ID:	Units: ug/Kg	Prep Date: 04/30/2018	Run No: 369107							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259858	Analysis Date: 04/30/2018	Seq No: 8174534							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5931 5500 5000 158.2 115 80 120
 Barium 5003 500 5000 100 80 120

Sample ID: 1804P66-021AMS	Client ID: DCS-60	Units: mg/Kg-dry	Prep Date: 04/30/2018	Run No: 369107							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259858	Analysis Date: 04/30/2018	Seq No: 8174537							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 120 4.013 2.712 104 75 125
 Barium 93.64 8.03 4.013 84.54 227 75 125 S

Sample ID: 1804P66-021AMSD	Client ID: DCS-60	Units: mg/Kg-dry	Prep Date: 04/30/2018	Run No: 369107							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 259858	Analysis Date: 04/30/2018	Seq No: 8174538							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 120 4.017 2.712 78.1 75 125 6.892 0 20
 Barium 87.42 8.03 4.017 84.54 71.8 75 125 93.64 6.87 20 S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 10, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708897

Analytical Environmental Services, Inc. received 4 samples on 8/9/2017 11:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1708897

Case Narrative

Samples were analyzed for 8270 PAH's in addition to the analysis on the COC per Forrest Howard via phone on 8/9/2017.

Analytical Environmental Services, Inc

Date: 10-Aug-17

Client: Georgia Power Company	Client Sample ID: DCS-01-N
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:25:00 PM
Lab ID: 1708897-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Benzo(b)fluoranthene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Benzo(a)pyrene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Indeno(1,2,3-cd)pyrene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Surr: 2-Fluorobiphenyl	79.9	53.3-120		%REC	246700	1	08/09/2017 18:45	RF
Surr: 4-Terphenyl-d14	92.7	61.2-120		%REC	246700	1	08/09/2017 18:45	RF
Surr: Nitrobenzene-d5	77.7	52.7-120		%REC	246700	1	08/09/2017 18:45	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.06		mg/Kg-dry	246708	1	08/09/2017 22:22	JR
Barium	30.1	0.54		mg/Kg-dry	246708	1	08/09/2017 22:22	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	246699	1	08/09/2017 17:54	RF
Surr: Dioctylphthalate	71.1	54.5-121		%REC	246699	1	08/09/2017 17:54	RF
PERCENT MOISTURE D2216								
Percent Moisture	10.6	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-E
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:30:00 PM
Lab ID: 1708897-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Benzo(a)pyrene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Surr: 2-Fluorobiphenyl	73.7	53.3-120		%REC	246700	1	08/09/2017 19:08	RF
Surr: 4-Terphenyl-d14	86.5	61.2-120		%REC	246700	1	08/09/2017 19:08	RF
Surr: Nitrobenzene-d5	74.2	52.7-120		%REC	246700	1	08/09/2017 19:08	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.54		mg/Kg-dry	246708	1	08/09/2017 22:53	JR
Barium	38.0	0.50		mg/Kg-dry	246708	1	08/09/2017 22:53	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	246699	1	08/09/2017 18:24	RF
Surr: Dioctylphthalate	85.9	54.5-121		%REC	246699	1	08/09/2017 18:24	RF
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-S
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:35:00 PM
Lab ID: 1708897-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Benzo(a)pyrene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Surr: 2-Fluorobiphenyl	78.2	53.3-120		%REC	246700	1	08/10/2017 09:27	RF
Surr: 4-Terphenyl-d14	88.5	61.2-120		%REC	246700	1	08/10/2017 09:27	RF
Surr: Nitrobenzene-d5	71.8	52.7-120		%REC	246700	1	08/10/2017 09:27	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.76		mg/Kg-dry	246708	1	08/09/2017 22:59	JR
Barium	37.0	0.52		mg/Kg-dry	246708	1	08/09/2017 22:59	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	246699	1	08/09/2017 18:53	RF
Surr: Dioctylphthalate	72.9	54.5-121		%REC	246699	1	08/09/2017 18:53	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-W
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:40:00 PM
Lab ID: 1708897-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Benz(a)anthracene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Benzo(b)fluoranthene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Benzo(a)pyrene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Indeno(1,2,3-cd)pyrene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Surr: 2-Fluorobiphenyl	79.4	53.3-120		%REC	246700	1	08/09/2017 19:54	RF
Surr: 4-Terphenyl-d14	86.9	61.2-120		%REC	246700	1	08/09/2017 19:54	RF
Surr: Nitrobenzene-d5	75.8	52.7-120		%REC	246700	1	08/09/2017 19:54	RF
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	8.63		mg/Kg-dry	246708	1	08/09/2017 23:05	JR
Barium	126	0.58		mg/Kg-dry	246708	1	08/09/2017 23:05	JR
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.5		mg/Kg-dry	246699	1	08/09/2017 19:23	RF
Surr: Dioctylphthalate	84.3	54.5-121		%REC	246699	1	08/09/2017 19:23	RF
PERCENT MOISTURE D2216								
Percent Moisture	20.9	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246699

Sample ID: MB-246699	Client ID:	Units: mg/Kg	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678971							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 3.012 0 3.300 91.3 54.5 121

Sample ID: LCS-246699	Client ID:	Units: mg/Kg	Prep Date: 08/09/2017	Run No: 349425							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678972							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 35.14 6.7 33.30 106 54.6 120
 Surr: Dioctylphthalate 3.054 0 3.330 91.7 54.5 121

Sample ID: 1708897-001AMS	Client ID: DCS-01-N	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678977							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 36.04 7.5 37.24 96.8 40.6 122
 Surr: Dioctylphthalate 3.120 0 3.724 83.8 54.5 121

Sample ID: 1708897-001AMSD	Client ID: DCS-01-N	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678978							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 37.67 7.5 37.24 101 40.6 122 36.04 4.41 29.9
 Surr: Dioctylphthalate 3.254 0 3.724 87.4 54.5 121 3.120 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246700

Sample ID: MB-246700	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349387							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678140							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1310	0	1667		78.6	53.3	120				
Surr: 4-Terphenyl-d14	1416	0	1667		85.0	61.2	120				
Surr: Nitrobenzene-d5	1338	0	1667		80.3	52.7	120				

Sample ID: LCS-246700	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349387							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678141							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1487	330	1667		89.2	70	120				
Benzo(a)pyrene	1400	330	1667		84.0	70	120				
Benzo(b)fluoranthene	1490	330	1667		89.4	70	120				
Indeno(1,2,3-cd)pyrene	1867	330	1667		112	70	120				
Surr: 2-Fluorobiphenyl	1478	0	1667		88.7	53.3	120				
Surr: 4-Terphenyl-d14	1507	0	1667		90.4	61.2	120				
Surr: Nitrobenzene-d5	1422	0	1667		85.3	52.7	120				

Sample ID: 1708897-002AMS	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349428							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/10/2017	Seq No: 7678906							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1599	390	1964		81.4	68.5	120				
Benzo(a)pyrene	1481	390	1964		75.4	67	120				
Benzo(b)fluoranthene	1547	390	1964		78.8	68.3	120				
Indeno(1,2,3-cd)pyrene	1495	390	1964		76.1	58.4	119				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246700

Sample ID: 1708897-002AMS	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349428							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/10/2017	Seq No: 7678906							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 2-Fluorobiphenyl	1445	0	1964		73.6	53.3	120				
Surr: 4-Terphenyl-d14	1600	0	1964		81.4	61.2	120				
Surr: Nitrobenzene-d5	1374	0	1964		70.0	52.7	120				

Sample ID: 1708897-002AMSD	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349387							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678147							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1709	390	1964		87.0	68.5	120	1885	9.76	19.1	
Benzo(a)pyrene	1645	390	1964		83.7	67	120	1745	5.90	20	
Benzo(b)fluoranthene	1696	390	1964		86.4	68.3	120	1823	7.23	19.8	
Indeno(1,2,3-cd)pyrene	1644	390	1964		83.7	58.4	119	1762	6.93	18.6	
Surr: 2-Fluorobiphenyl	1449	0	1964		73.8	53.3	120	1703	0	0	
Surr: 4-Terphenyl-d14	1735	0	1964		88.4	61.2	120	1885	0	0	
Surr: Nitrobenzene-d5	1593	0	1964		81.1	52.7	120	1619	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246708

Sample ID: MB-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678588							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678589							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4688 1500 5000 93.8 80 120
 Barium 5135 500 5000 103 80 120

Sample ID: 1708897-001AMS	Client ID: DCS-01-N	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678591							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8060 5371 1234 74.6 75 125 S
 Barium 39300 537 5371 30050 172 75 125 S

Sample ID: 1708897-001AMSD	Client ID: DCS-01-N	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678592							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8050 5370 1234 71.1 75 125 5243 0 20 S
 Barium 41820 537 5370 30050 219 75 125 39300 6.23 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 10, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708897

Analytical Environmental Services, Inc. received 4 samples on 8/9/2017 11:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1708897

Case Narrative

Samples were analyzed for 8270 PAH's in addition to the analysis on the COC per Forrest Howard via phone on 8/9/2017.

Analytical Environmental Services, Inc

Date: 10-Aug-17

Client: Georgia Power Company	Client Sample ID: DCS-01-N
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:25:00 PM
Lab ID: 1708897-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Benzo(b)fluoranthene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Benzo(a)pyrene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Indeno(1,2,3-cd)pyrene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Surr: 2-Fluorobiphenyl	79.9	53.3-120		%REC	246700	1	08/09/2017 18:45	RF
Surr: 4-Terphenyl-d14	92.7	61.2-120		%REC	246700	1	08/09/2017 18:45	RF
Surr: Nitrobenzene-d5	77.7	52.7-120		%REC	246700	1	08/09/2017 18:45	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.06		mg/Kg-dry	246708	1	08/09/2017 22:22	JR
Barium	30.1	0.54		mg/Kg-dry	246708	1	08/09/2017 22:22	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	246699	1	08/09/2017 17:54	RF
Surr: Dioctylphthalate	71.1	54.5-121		%REC	246699	1	08/09/2017 17:54	RF
PERCENT MOISTURE D2216								
Percent Moisture	10.6	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Aug-17

Client: Georgia Power Company	Client Sample ID: DCS-01-E
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:30:00 PM
Lab ID: 1708897-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Benzo(a)pyrene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Surr: 2-Fluorobiphenyl	73.7	53.3-120		%REC	246700	1	08/09/2017 19:08	RF
Surr: 4-Terphenyl-d14	86.5	61.2-120		%REC	246700	1	08/09/2017 19:08	RF
Surr: Nitrobenzene-d5	74.2	52.7-120		%REC	246700	1	08/09/2017 19:08	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.54		mg/Kg-dry	246708	1	08/09/2017 22:53	JR
Barium	38.0	0.50		mg/Kg-dry	246708	1	08/09/2017 22:53	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	246699	1	08/09/2017 18:24	RF
Surr: Dioctylphthalate	85.9	54.5-121		%REC	246699	1	08/09/2017 18:24	RF
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-S
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:35:00 PM
Lab ID: 1708897-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Benzo(a)pyrene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Surr: 2-Fluorobiphenyl	78.2	53.3-120		%REC	246700	1	08/10/2017 09:27	RF
Surr: 4-Terphenyl-d14	88.5	61.2-120		%REC	246700	1	08/10/2017 09:27	RF
Surr: Nitrobenzene-d5	71.8	52.7-120		%REC	246700	1	08/10/2017 09:27	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.76		mg/Kg-dry	246708	1	08/09/2017 22:59	JR
Barium	37.0	0.52		mg/Kg-dry	246708	1	08/09/2017 22:59	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	246699	1	08/09/2017 18:53	RF
Surr: Dioctylphthalate	72.9	54.5-121		%REC	246699	1	08/09/2017 18:53	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-W
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:40:00 PM
Lab ID: 1708897-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Benzo(b)fluoranthene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Benzo(a)pyrene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Indeno(1,2,3-cd)pyrene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Surr: 2-Fluorobiphenyl	79.4	53.3-120		%REC	246700	1	08/09/2017 19:54	RF
Surr: 4-Terphenyl-d14	86.9	61.2-120		%REC	246700	1	08/09/2017 19:54	RF
Surr: Nitrobenzene-d5	75.8	52.7-120		%REC	246700	1	08/09/2017 19:54	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.63		mg/Kg-dry	246708	1	08/09/2017 23:05	JR
Barium	126	0.58		mg/Kg-dry	246708	1	08/09/2017 23:05	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.5		mg/Kg-dry	246699	1	08/09/2017 19:23	RF
Surr: Dioctylphthalate	84.3	54.5-121		%REC	246699	1	08/09/2017 19:23	RF
PERCENT MOISTURE D2216								
Percent Moisture	20.9	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246699

Sample ID: MB-246699	Client ID:	Units: mg/Kg	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678971							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 3.012 0 3.300 91.3 54.5 121

Sample ID: LCS-246699	Client ID:	Units: mg/Kg	Prep Date: 08/09/2017	Run No: 349425							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678972							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 35.14 6.7 33.30 106 54.6 120
 Surr: Dioctylphthalate 3.054 0 3.330 91.7 54.5 121

Sample ID: 1708897-001AMS	Client ID: DCS-01-N	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678977							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 36.04 7.5 37.24 96.8 40.6 122
 Surr: Dioctylphthalate 3.120 0 3.724 83.8 54.5 121

Sample ID: 1708897-001AMSD	Client ID: DCS-01-N	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678978							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 37.67 7.5 37.24 101 40.6 122 36.04 4.41 29.9
 Surr: Dioctylphthalate 3.254 0 3.724 87.4 54.5 121 3.120 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246700

Sample ID: MB-246700	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349387							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678140							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1310	0	1667		78.6	53.3	120				
Surr: 4-Terphenyl-d14	1416	0	1667		85.0	61.2	120				
Surr: Nitrobenzene-d5	1338	0	1667		80.3	52.7	120				

Sample ID: LCS-246700	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349387							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678141							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1487	330	1667		89.2	70	120				
Benzo(a)pyrene	1400	330	1667		84.0	70	120				
Benzo(b)fluoranthene	1490	330	1667		89.4	70	120				
Indeno(1,2,3-cd)pyrene	1867	330	1667		112	70	120				
Surr: 2-Fluorobiphenyl	1478	0	1667		88.7	53.3	120				
Surr: 4-Terphenyl-d14	1507	0	1667		90.4	61.2	120				
Surr: Nitrobenzene-d5	1422	0	1667		85.3	52.7	120				

Sample ID: 1708897-002AMS	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349428							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/10/2017	Seq No: 7678906							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1599	390	1964		81.4	68.5	120				
Benzo(a)pyrene	1481	390	1964		75.4	67	120				
Benzo(b)fluoranthene	1547	390	1964		78.8	68.3	120				
Indeno(1,2,3-cd)pyrene	1495	390	1964		76.1	58.4	119				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246700

Sample ID: 1708897-002AMS	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349428							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/10/2017	Seq No: 7678906							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 2-Fluorobiphenyl	1445	0	1964		73.6	53.3	120				
Surr: 4-Terphenyl-d14	1600	0	1964		81.4	61.2	120				
Surr: Nitrobenzene-d5	1374	0	1964		70.0	52.7	120				

Sample ID: 1708897-002AMSD	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349387							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678147							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1709	390	1964		87.0	68.5	120	1885	9.76	19.1	
Benzo(a)pyrene	1645	390	1964		83.7	67	120	1745	5.90	20	
Benzo(b)fluoranthene	1696	390	1964		86.4	68.3	120	1823	7.23	19.8	
Indeno(1,2,3-cd)pyrene	1644	390	1964		83.7	58.4	119	1762	6.93	18.6	
Surr: 2-Fluorobiphenyl	1449	0	1964		73.8	53.3	120	1703	0	0	
Surr: 4-Terphenyl-d14	1735	0	1964		88.4	61.2	120	1885	0	0	
Surr: Nitrobenzene-d5	1593	0	1964		81.1	52.7	120	1619	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246708

Sample ID: MB-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678588							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678589							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4688 1500 5000 93.8 80 120
 Barium 5135 500 5000 103 80 120

Sample ID: 1708897-001AMS	Client ID: DCS-01-N	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678591							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8060 5371 1234 74.6 75 125 S
 Barium 39300 537 5371 30050 172 75 125 S

Sample ID: 1708897-001AMSD	Client ID: DCS-01-N	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678592							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8050 5370 1234 71.1 75 125 5243 0 20 S
 Barium 41820 537 5370 30050 219 75 125 39300 6.23 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 10, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1804542

Analytical Environmental Services, Inc. received 6 samples on 4/6/2018 9:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1804542

Case Narrative

Sample Receiving Nonconformance:

The Chain of Custody (COC) requests Arsenic and Boron analysis. Per client request, samples were analyzed for Arsenic and Barium.

Analytical Environmental Services, Inc

Date: 10-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-2
Project Name: Plant Kraft Excavation	Collection Date: 4/5/2018 1:22:00 PM
Lab ID: 1804542-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.35		mg/Kg-dry	258680	20	04/09/2018 13:59	DP
Barium	202	0.54		mg/Kg-dry	258680	20	04/09/2018 13:59	DP
PERCENT MOISTURE D2216								
Percent Moisture	15.3	0		wt%	R367409	1	04/09/2018 12:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-3
Project Name: Plant Kraft Excavation	Collection Date: 4/5/2018 1:26:00 PM
Lab ID: 1804542-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.40		mg/Kg-dry	258680	20	04/09/2018 14:01	DP
Barium	24.1	0.50		mg/Kg-dry	258680	20	04/09/2018 14:01	DP
PERCENT MOISTURE D2216								
Percent Moisture	56.6	0		wt%	R367409	1	04/09/2018 12:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-4
Project Name: Plant Kraft Excavation	Collection Date: 4/5/2018 1:32:00 PM
Lab ID: 1804542-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.37		mg/Kg-dry	258680	20	04/09/2018 14:03	DP
Barium	259	0.53		mg/Kg-dry	258680	20	04/09/2018 14:03	DP
PERCENT MOISTURE D2216								
Percent Moisture	22.5	0		wt%	R367409	1	04/09/2018 12:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-5
Project Name: Plant Kraft Excavation	Collection Date: 4/5/2018 1:28:00 PM
Lab ID: 1804542-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.46		mg/Kg-dry	258680	20	04/09/2018 14:05	DP
Barium	11.3	0.57		mg/Kg-dry	258680	20	04/09/2018 14:05	DP
PERCENT MOISTURE D2216								
Percent Moisture	38.7	0		wt%	R367409	1	04/09/2018 12:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-6
Project Name: Plant Kraft Excavation	Collection Date: 4/5/2018 1:40:00 PM
Lab ID: 1804542-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	258680	50	04/09/2018 14:20	DP
Barium	94.1	0.52		mg/Kg-dry	258680	20	04/09/2018 14:07	DP
PERCENT MOISTURE D2216								
Percent Moisture	12.5	0		wt%	R367409	1	04/09/2018 12:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1804542

ANALYTICAL QC SUMMARY REPORT

BatchID: 258680

Sample ID: MB-258680	Client ID:	Units: ug/Kg	Prep Date: 04/06/2018	Run No: 367315							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 258680	Analysis Date: 04/06/2018	Seq No: 8128605							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 5330
 Barium BRL 355

Sample ID: LCS-258680	Client ID:	Units: ug/Kg	Prep Date: 04/06/2018	Run No: 367315							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 258680	Analysis Date: 04/06/2018	Seq No: 8128606							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5884 5500 5000 59.57 116 80 120
 Barium 5172 500 5000 103 80 120

Sample ID: 1804279-001CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/06/2018	Run No: 367315							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 258680	Analysis Date: 04/06/2018	Seq No: 8128608							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium 49.28 7.50 3.750 47.09 58.5 75 125 S

Sample ID: 1804279-001CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/06/2018	Run No: 367315							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 258680	Analysis Date: 04/06/2018	Seq No: 8128613							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 11.3 3.750 132 75 125 S

Sample ID: 1804279-001CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/06/2018	Run No: 367315							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 258680	Analysis Date: 04/06/2018	Seq No: 8128609							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium 53.52 7.50 3.750 47.09 172 75 125 49.28 8.26 20 S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1804542

ANALYTICAL QC SUMMARY REPORT

BatchID: 258680

Sample ID: 1804279-001CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/06/2018	Run No: 367315
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 258680	Analysis Date: 04/06/2018	Seq No: 8128614

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	11.3	3.750		128	75	125	4.952	0	20	S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 12, 2018

Lea Millet
Georgia Power Company

241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1804796

Analytical Environmental Services, Inc. received 10 samples on 4/10/2018 10:15:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-8
Project Name: Plant Kraft Excavation	Collection Date: 4/6/2018 8:06:00 AM
Lab ID: 1804796-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	113	17.3		mg/Kg-dry	258916	20	04/11/2018 15:03	DP
Barium	607	11.5		mg/Kg-dry	258916	20	04/11/2018 15:03	DP
PERCENT MOISTURE D2216								
Percent Moisture	33.4	0		wt%	R367591	1	04/10/2018 16:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-9
Project Name: Plant Kraft Excavation	Collection Date: 4/6/2018 8:14:00 AM
Lab ID: 1804796-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	105	16.1		mg/Kg-dry	258916	20	04/11/2018 15:04	DP
Barium	731	10.7		mg/Kg-dry	258916	20	04/11/2018 15:04	DP
PERCENT MOISTURE D2216								
Percent Moisture	30.7	0		wt%	R367591	1	04/10/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-10
Project Name: Plant Kraft Excavation	Collection Date: 4/6/2018 8:22:00 AM
Lab ID: 1804796-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	20.7	12.7		mg/Kg-dry	258916	20	04/11/2018 15:12	DP
Barium	183	8.47		mg/Kg-dry	258916	20	04/11/2018 15:12	DP
PERCENT MOISTURE D2216								
Percent Moisture	13.8	0		wt%	R367591	1	04/10/2018 16:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-11
Project Name: Plant Kraft Excavation	Collection Date: 4/6/2018 12:46:00 PM
Lab ID: 1804796-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	8.84	7.63		mg/Kg-dry	258916	20	04/11/2018 15:14	DP
Barium	380	9.54		mg/Kg-dry	258916	20	04/11/2018 15:14	DP
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R367591	1	04/10/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-12
Project Name: Plant Kraft Excavation	Collection Date: 4/6/2018 12:50:00 PM
Lab ID: 1804796-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.44		mg/Kg-dry	258916	20	04/11/2018 15:16	DP
Barium	172	8.27		mg/Kg-dry	258916	20	04/11/2018 15:16	DP
PERCENT MOISTURE D2216								
Percent Moisture	12.1	0		wt%	R367591	1	04/10/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-13
Project Name: Plant Kraft Excavation	Collection Date: 4/6/2018 1:00:00 PM
Lab ID: 1804796-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.45		mg/Kg-dry	258916	20	04/11/2018 15:18	DP
Barium	128	8.97		mg/Kg-dry	258916	20	04/11/2018 15:18	DP
PERCENT MOISTURE D2216								
Percent Moisture	13.0	0		wt%	R367591	1	04/10/2018 16:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-14
Project Name: Plant Kraft Excavation	Collection Date: 4/6/2018 1:04:00 PM
Lab ID: 1804796-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.48		mg/Kg-dry	258916	20	04/11/2018 15:20	DP
Barium	139	8.54		mg/Kg-dry	258916	20	04/11/2018 15:20	DP
PERCENT MOISTURE D2216								
Percent Moisture	14.2	0		wt%	R367591	1	04/10/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-15
Project Name: Plant Kraft Excavation	Collection Date: 4/6/2018 1:12:00 PM
Lab ID: 1804796-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.48		mg/Kg-dry	258916	20	04/11/2018 15:22	DP
Barium	110	8.59		mg/Kg-dry	258916	20	04/11/2018 15:22	DP
PERCENT MOISTURE D2216								
Percent Moisture	11.7	0		wt%	R367591	1	04/10/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-16
Project Name: Plant Kraft Excavation	Collection Date: 4/6/2018 1:20:00 PM
Lab ID: 1804796-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.44		mg/Kg-dry	258916	20	04/11/2018 15:24	DP
Barium	176	8.97		mg/Kg-dry	258916	20	04/11/2018 15:24	DP
PERCENT MOISTURE D2216								
Percent Moisture	15.0	0		wt%	R367591	1	04/10/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1804796

ANALYTICAL QC SUMMARY REPORT

BatchID: 258916

Sample ID: MB-258916	Client ID:	Units: ug/Kg	Prep Date: 04/11/2018	Run No: 367705							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 258916	Analysis Date: 04/11/2018	Seq No: 8138096							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: 1804675-001CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/11/2018	Run No: 367705							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 258916	Analysis Date: 04/11/2018	Seq No: 8138102							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 9.07 4.536 102 75 125
 Barium 246.3 9.07 4.536 232.6 302 75 125 S

Sample ID: 1804675-001CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/11/2018	Run No: 367705							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 258916	Analysis Date: 04/11/2018	Seq No: 8138104							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 136 4.535 88.8 75 125 4.636 0 20
 Barium 229.3 9.07 4.535 232.6 -71.9 75 125 246.3 7.13 20 S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 12, 2018

Lea Millet
Georgia Power Company

241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1804941

Analytical Environmental Services, Inc. received 11 samples on 4/11/2018 9:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-2
Project Name: Plant Kraft Excavation	Collection Date: 4/9/2018 10:56:00 AM
Lab ID: 1804941-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.47		mg/Kg-dry	258998	20	04/12/2018 14:44	DP
Barium	44.2	0.82		mg/Kg-dry	258998	20	04/12/2018 14:44	DP
PERCENT MOISTURE D2216								
Percent Moisture	13.4	0		wt%	R367713	1	04/11/2018 17:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-5
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2018 9:26:00 AM
Lab ID: 1804941-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.35		mg/Kg-dry	258998	20	04/12/2018 14:55	DP
Barium	24.4	0.82		mg/Kg-dry	258998	20	04/12/2018 14:55	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.3	0		wt%	R367713	1	04/11/2018 17:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-6
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2018 10:54:00 AM
Lab ID: 1804941-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.46		mg/Kg-dry	258998	20	04/12/2018 14:57	DP
Barium	70.0	0.85		mg/Kg-dry	258998	20	04/12/2018 14:57	DP
PERCENT MOISTURE D2216								
Percent Moisture	11.7	0		wt%	R367713	1	04/11/2018 17:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-7
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2018 12:46:00 PM
Lab ID: 1804941-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.41		mg/Kg-dry	258998	20	04/12/2018 14:59	DP
Barium	12.6	0.80		mg/Kg-dry	258998	20	04/12/2018 14:59	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.1	0		wt%	R367713	1	04/11/2018 17:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-8
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2018 1:26:00 PM
Lab ID: 1804941-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.47		mg/Kg-dry	258998	20	04/12/2018 15:01	DP
Barium	20.8	0.90		mg/Kg-dry	258998	20	04/12/2018 15:01	DP
PERCENT MOISTURE D2216								
Percent Moisture	12.9	0		wt%	R367713	1	04/11/2018 17:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-9
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2018 2:16:00 PM
Lab ID: 1804941-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.47		mg/Kg-dry	258998	20	04/12/2018 15:03	DP
Barium	10.1	0.81		mg/Kg-dry	258998	20	04/12/2018 15:03	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.45	0		wt%	R367713	1	04/11/2018 17:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-10
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2018 2:26:00 PM
Lab ID: 1804941-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	258998	20	04/12/2018 15:05	DP
Barium	15.4	0.83		mg/Kg-dry	258998	20	04/12/2018 15:05	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.8	0		wt%	R367713	1	04/11/2018 17:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-11
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2018 2:58:00 PM
Lab ID: 1804941-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.47		mg/Kg-dry	258998	20	04/12/2018 15:07	DP
Barium	19.1	0.81		mg/Kg-dry	258998	20	04/12/2018 15:07	DP
PERCENT MOISTURE D2216								
Percent Moisture	5.29	0		wt%	R367713	1	04/11/2018 17:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1804941

ANALYTICAL QC SUMMARY REPORT

BatchID: 258998

Sample ID: MB-258998	Client ID:	Units: ug/Kg	Prep Date: 04/11/2018	Run No: 367801							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 258998	Analysis Date: 04/12/2018	Seq No: 8141170							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-258998	Client ID:	Units: ug/Kg	Prep Date: 04/11/2018	Run No: 367801							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 258998	Analysis Date: 04/12/2018	Seq No: 8141171							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5377 5000 5000 106.2 105 80 120
 Barium 5508 500 5000 110 80 120

Sample ID: 1804941-001AMS	Client ID: DCS-1	Units: mg/Kg-dry	Prep Date: 04/11/2018	Run No: 367801							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 258998	Analysis Date: 04/12/2018	Seq No: 8141173							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 11.14 7.87 7.023 3.910 103 75 125
 Barium 57.99 1.40 7.023 79.10 -301 75 125 S

Sample ID: 1804941-001AMSD	Client ID: DCS-1	Units: mg/Kg-dry	Prep Date: 04/11/2018	Run No: 367801							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 258998	Analysis Date: 04/12/2018	Seq No: 8141174							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 10.87 7.58 7.022 3.910 99.1 75 125 11.14 2.47 20
 Barium 57.55 1.40 7.022 79.10 -307 75 125 57.99 0.765 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 03, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1805175

Analytical Environmental Services, Inc. received 14 samples on 5/2/2018 10:05:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-72
Project Name: Plant Kraft Excavation	Collection Date: 4/30/2018 9:52:00 AM
Lab ID: 1805175-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.04		mg/Kg-dry	260057	20	05/03/2018 14:33	DP
Barium	77.6	8.38		mg/Kg-dry	260057	20	05/03/2018 14:33	DP
PERCENT MOISTURE D2216								
Percent Moisture	6.69	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-73
Project Name: Plant Kraft Excavation	Collection Date: 4/30/2018 10:24:00 AM
Lab ID: 1805175-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.22		mg/Kg-dry	260057	20	05/03/2018 14:40	DP
Barium	99.4	8.80		mg/Kg-dry	260057	20	05/03/2018 14:40	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.37	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-74
Project Name: Plant Kraft Excavation	Collection Date: 4/30/2018 10:28:00 AM
Lab ID: 1805175-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	260057	20	05/03/2018 14:42	DP
Barium	100	9.65		mg/Kg-dry	260057	20	05/03/2018 14:42	DP
PERCENT MOISTURE D2216								
Percent Moisture	8.10	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-75
Project Name: Plant Kraft Excavation	Collection Date: 4/30/2018 11:32:00 AM
Lab ID: 1805175-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.24		mg/Kg-dry	260057	20	05/03/2018 14:44	DP
Barium	74.7	6.58		mg/Kg-dry	260057	20	05/03/2018 14:44	DP
PERCENT MOISTURE D2216								
Percent Moisture	8.86	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-76
Project Name: Plant Kraft Excavation	Collection Date: 4/30/2018 12:52:00 PM
Lab ID: 1805175-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.44		mg/Kg-dry	260057	20	05/03/2018 14:46	DP
Barium	110	7.59		mg/Kg-dry	260057	20	05/03/2018 14:46	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.20	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-77
Project Name: Plant Kraft Excavation	Collection Date: 4/30/2018 2:06:00 PM
Lab ID: 1805175-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	7.52	7.44		mg/Kg-dry	260057	20	05/03/2018 14:48	DP
Barium	102	7.29		mg/Kg-dry	260057	20	05/03/2018 14:48	DP
PERCENT MOISTURE D2216								
Percent Moisture	7.17	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-78
Project Name: Plant Kraft Excavation	Collection Date: 4/30/2018 2:28:00 PM
Lab ID: 1805175-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.45		mg/Kg-dry	260057	20	05/03/2018 14:50	DP
Barium	71.4	8.87		mg/Kg-dry	260057	20	05/03/2018 14:50	DP
PERCENT MOISTURE D2216								
Percent Moisture	8.62	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-79
Project Name: Plant Kraft Excavation	Collection Date: 4/30/2018 2:44:00 PM
Lab ID: 1805175-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.38		mg/Kg-dry	260057	20	05/03/2018 14:52	DP
Barium	114	9.46		mg/Kg-dry	260057	20	05/03/2018 14:52	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.01	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-80SW
Project Name: Plant Kraft Excavation	Collection Date: 4/30/2018 2:48:00 PM
Lab ID: 1805175-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	8.81	7.15		mg/Kg-dry	260057	20	05/03/2018 14:54	DP
Barium	183	8.93		mg/Kg-dry	260057	20	05/03/2018 14:54	DP
PERCENT MOISTURE D2216								
Percent Moisture	13.9	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-81
Project Name: Plant Kraft Excavation	Collection Date: 5/1/2018 10:40:00 AM
Lab ID: 1805175-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.35		mg/Kg-dry	260057	20	05/03/2018 14:56	DP
Barium	124	10.2		mg/Kg-dry	260057	20	05/03/2018 14:56	DP
PERCENT MOISTURE D2216								
Percent Moisture	14.8	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-18

Client: Georgia Power Company	Client Sample ID: DCS-82
Project Name: Plant Kraft Excavation	Collection Date: 5/1/2018 2:54:00 PM
Lab ID: 1805175-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.24		mg/Kg-dry	260057	20	05/03/2018 14:58	DP
Barium	54.9	8.62		mg/Kg-dry	260057	20	05/03/2018 14:58	DP
PERCENT MOISTURE D2216								
Percent Moisture	4.63	0		wt%	R369361	1	05/03/2018 10:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1805175

ANALYTICAL QC SUMMARY REPORT

BatchID: 260057

Sample ID: MB-260057	Client ID:	Units: ug/Kg	Prep Date: 05/02/2018	Run No: 369428							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 260057	Analysis Date: 05/03/2018	Seq No: 8183631							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-260057	Client ID:	Units: ug/Kg	Prep Date: 05/02/2018	Run No: 369428							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 260057	Analysis Date: 05/03/2018	Seq No: 8183632							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5684 5500 5000 120.9 111 80 120
 Barium 4764 500 5000 95.3 80 120

Sample ID: 1805175-001AMS	Client ID: DCS-70	Units: mg/Kg-dry	Prep Date: 05/02/2018	Run No: 369428							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 260057	Analysis Date: 05/03/2018	Seq No: 8183634							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.197 7.12 4.342 3.412 87.1 75 125
 Barium 95.60 8.68 4.342 94.22 31.9 75 125 S

Sample ID: 1805175-001AMSD	Client ID: DCS-70	Units: mg/Kg-dry	Prep Date: 05/02/2018	Run No: 369428							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 260057	Analysis Date: 05/03/2018	Seq No: 8183636							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.607 7.11 4.337 3.412 96.7 75 125 7.197 5.55 20
 Barium 92.99 8.67 4.337 94.22 -28.1 75 125 95.60 2.76 20 S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Analytical Environmental Services, Inc

Date: 7-May-18

Client: Georgia Power Company	Client Sample ID: DD-38
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2018 2:56:00 PM
Lab ID: 1805461-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B								
					(SW3050B)			
Arsenic	59.4	9.63		mg/Kg-dry	260216	20	05/07/2018 14:26	NG
Barium	403	9.63		mg/Kg-dry	260216	20	05/07/2018 14:26	NG
PERCENT MOISTURE D2216								
Percent Moisture	13.3	0		wt%	R369558	1	05/07/2018 09:02	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 17, 2018

Lea Millet
Georgia Power Company

241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1804C85

Analytical Environmental Services, Inc. received 14 samples on 4/14/2018 11:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-12
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 8:02:00 AM
Lab ID: 1804C85-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B				(SW3050B)				
Arsenic	BRL	7.43		mg/Kg-dry	259140	20	04/16/2018 15:11	DP
Barium	8.35	0.63		mg/Kg-dry	259140	20	04/16/2018 15:11	DP
PERCENT MOISTURE D2216								
Percent Moisture	4.88	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-13
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 8:06:00 AM
Lab ID: 1804C85-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	10.4	7.65		mg/Kg-dry	259140	20	04/16/2018 15:13	DP
Barium	34.1	0.60		mg/Kg-dry	259140	20	04/16/2018 15:13	DP
PERCENT MOISTURE D2216								
Percent Moisture	2.46	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL Below reporting limit	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	Narr See case narrative
N Analyte not NELAC certified	NC Not confirmed
B Analyte detected in the associated method blank	< Less than Result value
> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-14
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 8:26:00 AM
Lab ID: 1804C85-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.42		mg/Kg-dry	259140	20	04/16/2018 15:15	DP
Barium	12.4	0.73		mg/Kg-dry	259140	20	04/16/2018 15:15	DP
PERCENT MOISTURE D2216								
Percent Moisture	4.27	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-15
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 8:32:00 AM
Lab ID: 1804C85-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.35		mg/Kg-dry	259140	20	04/16/2018 15:17	DP
Barium	10.5	0.69		mg/Kg-dry	259140	20	04/16/2018 15:17	DP
PERCENT MOISTURE D2216								
Percent Moisture	5.27	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-16
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 9:30:00 AM
Lab ID: 1804C85-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.41		mg/Kg-dry	259140	20	04/16/2018 15:19	DP
Barium	12.3	0.68		mg/Kg-dry	259140	20	04/16/2018 15:19	DP
PERCENT MOISTURE D2216								
Percent Moisture	2.49	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-17SW
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 1:28:00 PM
Lab ID: 1804C85-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.46		mg/Kg-dry	259140	20	04/16/2018 15:21	DP
Barium	14.9	0.71		mg/Kg-dry	259140	20	04/16/2018 15:21	DP
PERCENT MOISTURE D2216								
Percent Moisture	7.89	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-18SW
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 1:38:00 PM
Lab ID: 1804C85-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.46		mg/Kg-dry	259140	20	04/16/2018 15:23	DP
Barium	17.7	0.74		mg/Kg-dry	259140	20	04/16/2018 15:23	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.10	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-19SW
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 2:24:00 PM
Lab ID: 1804C85-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.38		mg/Kg-dry	259140	20	04/16/2018 15:25	DP
Barium	10.5	0.73		mg/Kg-dry	259140	20	04/16/2018 15:25	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.7	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-20SW
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 3:16:00 PM
Lab ID: 1804C85-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.49		mg/Kg-dry	259140	20	04/16/2018 15:27	DP
Barium	17.0	0.78		mg/Kg-dry	259140	20	04/16/2018 15:27	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.62	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-21SW
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 3:22:00 PM
Lab ID: 1804C85-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.46		mg/Kg-dry	259140	20	04/16/2018 15:35	DP
Barium	14.6	0.75		mg/Kg-dry	259140	20	04/16/2018 15:35	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.28	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-22SW
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2018 3:50:00 PM
Lab ID: 1804C85-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.28		mg/Kg-dry	259140	20	04/16/2018 15:37	DP
Barium	20.9	0.71		mg/Kg-dry	259140	20	04/16/2018 15:37	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.97	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-23SW
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 3:28:00 PM
Lab ID: 1804C85-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.32		mg/Kg-dry	259140	20	04/16/2018 15:39	DP
Barium	54.2	0.74		mg/Kg-dry	259140	20	04/16/2018 15:39	DP
PERCENT MOISTURE D2216								
Percent Moisture	9.17	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-24SW
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 3:40:00 PM
Lab ID: 1804C85-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.45		mg/Kg-dry	259140	20	04/16/2018 15:41	DP
Barium	46.8	0.74		mg/Kg-dry	259140	20	04/16/2018 15:41	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.1	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-25
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 5:04:00 PM
Lab ID: 1804C85-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	259140	20	04/16/2018 15:43	DP
Barium	30.7	0.73		mg/Kg-dry	259140	20	04/16/2018 15:43	DP
PERCENT MOISTURE D2216								
Percent Moisture	11.6	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: GA POWER

AES Work Order Number: 1804C85

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 2.1 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 4/14/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MJ 4/14/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MJ 4/14/18
Page 17 of 18



Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1804C85

ANALYTICAL QC SUMMARY REPORT

BatchID: 259140

Sample ID: MB-259140	Client ID:	Units: ug/Kg	Prep Date: 04/16/2018	Run No: 368020							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 259140	Analysis Date: 04/16/2018	Seq No: 8146682							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-259140	Client ID:	Units: ug/Kg	Prep Date: 04/16/2018	Run No: 368020							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259140	Analysis Date: 04/16/2018	Seq No: 8146683							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5929 5500 5000 137.1 116 80 120
 Barium 5949 500 5000 119 80 120

Sample ID: 1804A37-001BMS	Client ID:	Units: ug/Kg	Prep Date: 04/16/2018	Run No: 368020							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259140	Analysis Date: 04/16/2018	Seq No: 8146685							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 10900 3625 1042 78.8 75 125
 Barium 34700 7250 3625 30950 103 75 125

Sample ID: 1804A37-001BMSD	Client ID:	Units: ug/Kg	Prep Date: 04/16/2018	Run No: 368020							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 259140	Analysis Date: 04/16/2018	Seq No: 8146686							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 109000 3640 1042 64.2 75 125 3898 0 20 S
 Barium 25930 7280 3640 30950 -138 75 125 34700 28.9 20 SR

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 18, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1804C86

Analytical Environmental Services, Inc. received 10 samples on 4/14/2018 11:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 18-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-18
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 10:42:00 AM
Lab ID: 1804C86-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	43.3	7.58		mg/Kg-dry	259181	20	04/17/2018 14:24	DP
Barium	348	0.78		mg/Kg-dry	259181	20	04/17/2018 14:24	DP
PERCENT MOISTURE D2216								
Percent Moisture	20.4	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-19
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 10:56:00 AM
Lab ID: 1804C86-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	9.22	7.82		mg/Kg-dry	259181	20	04/17/2018 14:26	DP
Barium	112	0.65		mg/Kg-dry	259181	20	04/17/2018 14:26	DP
PERCENT MOISTURE D2216								
Percent Moisture	12.3	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-20
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 11:08:00 AM
Lab ID: 1804C86-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	17.2	7.79		mg/Kg-dry	259181	20	04/17/2018 14:44	DP
Barium	146	0.69		mg/Kg-dry	259181	20	04/17/2018 14:44	DP
PERCENT MOISTURE D2216								
Percent Moisture	12.5	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-21
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 2:50:00 PM
Lab ID: 1804C86-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	259181	20	04/17/2018 14:45	DP
Barium	230	0.75		mg/Kg-dry	259181	20	04/17/2018 14:45	DP
PERCENT MOISTURE D2216								
Percent Moisture	20.9	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-22
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 2:54:00 PM
Lab ID: 1804C86-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.45		mg/Kg-dry	259181	20	04/17/2018 14:49	DP
Barium	233	0.74		mg/Kg-dry	259181	20	04/17/2018 14:49	DP
PERCENT MOISTURE D2216								
Percent Moisture	13.3	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-23
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 2:58:00 PM
Lab ID: 1804C86-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.42		mg/Kg-dry	259181	20	04/17/2018 14:51	DP
Barium	201	0.59		mg/Kg-dry	259181	20	04/17/2018 14:51	DP
PERCENT MOISTURE D2216								
Percent Moisture	15.4	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-24
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 3:04:00 PM
Lab ID: 1804C86-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.33		mg/Kg-dry	259181	20	04/17/2018 14:59	DP
Barium	170	0.83		mg/Kg-dry	259181	20	04/17/2018 14:59	DP
PERCENT MOISTURE D2216								
Percent Moisture	27.0	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Apr-18

Client: Georgia Power Company	Client Sample ID: DD-26
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2018 4:48:00 PM
Lab ID: 1804C86-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	13.6	7.51		mg/Kg-dry	259181	20	04/17/2018 15:03	DP
Barium	197	0.68		mg/Kg-dry	259181	20	04/17/2018 15:03	DP
PERCENT MOISTURE D2216								
Percent Moisture	12.3	0		wt%	R368006	1	04/16/2018 15:30	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **GA POWER**

AES Work Order Number: **1804C86**

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 2.1 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 4/14/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MJ 4/14/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MJ 4/14/18



Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1804C86

ANALYTICAL QC SUMMARY REPORT

BatchID: 259181

Sample ID: MB-259181	Client ID:	Units: ug/Kg	Prep Date: 04/16/2018	Run No: 368106							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 259181	Analysis Date: 04/17/2018	Seq No: 8148731							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-259181	Client ID:	Units: ug/Kg	Prep Date: 04/16/2018	Run No: 368106							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259181	Analysis Date: 04/17/2018	Seq No: 8148732							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5052 5000 5000 119.4 98.7 80 120
 Barium 4986 500 5000 99.7 80 120

Sample ID: 1804C86-001AMS	Client ID: DD-17	Units: mg/Kg-dry	Prep Date: 04/16/2018	Run No: 368106							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259181	Analysis Date: 04/17/2018	Seq No: 8148734							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 21.43 7.61 3.807 17.77 96.0 75 125
 Barium 159.3 0.61 3.807 158.1 32.8 75 125 S

Sample ID: 1804C86-001AMSD	Client ID: DD-17	Units: mg/Kg-dry	Prep Date: 04/16/2018	Run No: 368106							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 259181	Analysis Date: 04/17/2018	Seq No: 8148744							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 22.13 7.61 3.804 17.77 114 75 125 21.43 3.22 20
 Barium 156.7 0.61 3.804 158.1 -37.1 75 125 159.3 1.68 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 19, 2018

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1804G27

Analytical Environmental Services, Inc. received 8 samples on April 18, 2018 10:10 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Client: Georgia Power Company
Project: Plant Kraft Excavation
Lab ID: 1804G27

Case Narrative

Metals Analysis by Method 6020B:

Due to sample matrix, samples 1804G27-001A, 002A, 003A, 004A, 005A, 006A, 007A, and 008 A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 19-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-27
Project Name: Plant Kraft Excavation	Collection Date: 4/13/2018 9:42:00 AM
Lab ID: 1804G27-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	8.32	7.55		mg/Kg-dry	259348	20	04/19/2018 10:26	DP
Barium	51.1	0.69		mg/Kg-dry	259348	20	04/19/2018 10:26	DP
PERCENT MOISTURE D2216								
Percent Moisture	10.6	0		wt%	R368174	1	04/18/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-29
Project Name: Plant Kraft Excavation	Collection Date: 4/16/2018 2:02:00 PM
Lab ID: 1804G27-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.39		mg/Kg-dry	259348	20	04/19/2018 10:36	DP
Barium	31.7	0.70		mg/Kg-dry	259348	20	04/19/2018 10:36	DP
PERCENT MOISTURE D2216								
Percent Moisture	11.7	0		wt%	R368174	1	04/18/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-30
Project Name: Plant Kraft Excavation	Collection Date: 4/16/2018 3:40:00 PM
Lab ID: 1804G27-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.42		mg/Kg-dry	259348	20	04/19/2018 10:38	DP
Barium	6.41	0.59		mg/Kg-dry	259348	20	04/19/2018 10:38	DP
PERCENT MOISTURE D2216								
Percent Moisture	3.94	0		wt%	R368174	1	04/18/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-31
Project Name: Plant Kraft Excavation	Collection Date: 4/16/2018 4:48:00 PM
Lab ID: 1804G27-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.40		mg/Kg-dry	259348	20	04/19/2018 10:40	DP
Barium	26.0	0.62		mg/Kg-dry	259348	20	04/19/2018 10:40	DP
PERCENT MOISTURE D2216								
Percent Moisture	7.59	0		wt%	R368174	1	04/18/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-32
Project Name: Plant Kraft Excavation	Collection Date: 4/17/2018 8:22:00 AM
Lab ID: 1804G27-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.48		mg/Kg-dry	259348	20	04/19/2018 10:42	DP
Barium	13.0	0.64		mg/Kg-dry	259348	20	04/19/2018 10:42	DP
PERCENT MOISTURE D2216								
Percent Moisture	8.37	0		wt%	R368174	1	04/18/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-33
Project Name: Plant Kraft Excavation	Collection Date: 4/17/2018 9:28:00 AM
Lab ID: 1804G27-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.37		mg/Kg-dry	259348	20	04/19/2018 10:44	DP
Barium	49.6	0.74		mg/Kg-dry	259348	20	04/19/2018 10:44	DP
PERCENT MOISTURE D2216								
Percent Moisture	17.5	0		wt%	R368174	1	04/18/2018 16:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1804G27

ANALYTICAL QC SUMMARY REPORT

BatchID: 259348

Sample ID: MB-259348	Client ID:	Units: ug/Kg	Prep Date: 04/18/2018	Run No: 368274							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 259348	Analysis Date: 04/19/2018	Seq No: 8154569							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-259348	Client ID:	Units: ug/Kg	Prep Date: 04/18/2018	Run No: 368274							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259348	Analysis Date: 04/19/2018	Seq No: 8154570							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5815 5000 5000 77.49 115 80 120
 Barium 5084 500 5000 102 80 120

Sample ID: 1804B51-010BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/18/2018	Run No: 368274							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259348	Analysis Date: 04/19/2018	Seq No: 8153314							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 126 4.203 1.861 95.1 75 125
 Barium 49.43 8.41 4.203 44.84 109 75 125

Sample ID: 1804B51-010BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/18/2018	Run No: 368274							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 259348	Analysis Date: 04/19/2018	Seq No: 8153317							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 126 4.189 1.861 119 75 125 5.860 0 20
 Barium 56.53 8.38 4.189 44.84 279 75 125 49.43 13.4 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 25, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1804K34

Analytical Environmental Services, Inc. received 14 samples on 4/21/2018 10:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-34
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 10:24:00 AM
Lab ID: 1804K34-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B				(SW3050B)				
Arsenic	BRL	7.41		mg/Kg-dry	259570	20	04/23/2018 18:04	NG
Barium	21.0	6.28		mg/Kg-dry	259570	20	04/23/2018 18:04	NG
PERCENT MOISTURE D2216								
Percent Moisture	3.48	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-35
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 10:28:00 AM
Lab ID: 1804K34-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.33		mg/Kg-dry	259570	20	04/23/2018 19:51	NG
Barium	33.1	7.97		mg/Kg-dry	259570	20	04/23/2018 19:51	NG
PERCENT MOISTURE D2216								
Percent Moisture	5.77	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-36
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 11:42:00 AM
Lab ID: 1804K34-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.49		mg/Kg-dry	259570	20	04/23/2018 19:57	NG
Barium	30.7	6.63		mg/Kg-dry	259570	20	04/23/2018 19:57	NG
PERCENT MOISTURE D2216								
Percent Moisture	5.84	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-37
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 11:48:00 AM
Lab ID: 1804K34-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.49		mg/Kg-dry	259570	20	04/23/2018 20:04	NG
Barium	73.0	6.14		mg/Kg-dry	259570	20	04/23/2018 20:04	NG
PERCENT MOISTURE D2216								
Percent Moisture	5.77	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-38
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 11:54:00 AM
Lab ID: 1804K34-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	259570	20	04/23/2018 20:10	NG
Barium	139	8.64		mg/Kg-dry	259570	20	04/23/2018 20:10	NG
PERCENT MOISTURE D2216								
Percent Moisture	10.7	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-39
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 11:58:00 AM
Lab ID: 1804K34-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.31		mg/Kg-dry	259570	20	04/23/2018 20:16	NG
Barium	38.3	8.12		mg/Kg-dry	259570	20	04/23/2018 20:16	NG
PERCENT MOISTURE D2216								
Percent Moisture	3.71	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-40
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 1:38:00 PM
Lab ID: 1804K34-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.35		mg/Kg-dry	259570	20	04/23/2018 20:23	NG
Barium	48.2	6.69		mg/Kg-dry	259570	20	04/23/2018 20:23	NG
PERCENT MOISTURE D2216								
Percent Moisture	6.42	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-41
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 2:30:00 PM
Lab ID: 1804K34-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	259570	20	04/23/2018 20:29	NG
Barium	17.0	7.35		mg/Kg-dry	259570	20	04/23/2018 20:29	NG
PERCENT MOISTURE D2216								
Percent Moisture	6.76	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-42SW
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 2:34:00 PM
Lab ID: 1804K34-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	259570	20	04/23/2018 20:54	NG
Barium	13.6	7.82		mg/Kg-dry	259570	20	04/23/2018 20:54	NG
PERCENT MOISTURE D2216								
Percent Moisture	11.4	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-43
Project Name: Plant Kraft Excavation	Collection Date: 4/18/2018 4:26:00 PM
Lab ID: 1804K34-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	259570	20	04/23/2018 21:01	NG
Barium	50.2	8.26		mg/Kg-dry	259570	20	04/23/2018 21:01	NG
PERCENT MOISTURE D2216								
Percent Moisture	15.3	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-44
Project Name: Plant Kraft Excavation	Collection Date: 4/19/2018 10:04:00 AM
Lab ID: 1804K34-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.46		mg/Kg-dry	259570	20	04/23/2018 21:07	NG
Barium	15.8	7.77		mg/Kg-dry	259570	20	04/23/2018 21:07	NG
PERCENT MOISTURE D2216								
Percent Moisture	10.9	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-45SW
Project Name: Plant Kraft Excavation	Collection Date: 4/19/2018 10:06:00 AM
Lab ID: 1804K34-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.33		mg/Kg-dry	259570	20	04/23/2018 21:13	NG
Barium	19.0	8.73		mg/Kg-dry	259570	20	04/23/2018 21:13	NG
PERCENT MOISTURE D2216								
Percent Moisture	12.2	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-46SW2
Project Name: Plant Kraft Excavation	Collection Date: 4/19/2018 1:32:00 PM
Lab ID: 1804K34-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.46		mg/Kg-dry	259570	20	04/23/2018 21:20	NG
Barium	19.9	7.39		mg/Kg-dry	259570	20	04/24/2018 15:47	NG
PERCENT MOISTURE D2216								
Percent Moisture	12.3	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Apr-18

Client: Georgia Power Company	Client Sample ID: DCS-47SW
Project Name: Plant Kraft Excavation	Collection Date: 4/19/2018 1:36:00 PM
Lab ID: 1804K34-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	259570	20	04/23/2018 21:26	NG
Barium	16.5	6.82		mg/Kg-dry	259570	20	04/23/2018 21:26	NG
PERCENT MOISTURE D2216								
Percent Moisture	11.3	0		wt%	R368461	1	04/23/2018 12:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **GA POWER**

AES Work Order Number: **1804K34**

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 2.1 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 4/21/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). ES 4/21/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). ES 4/21/18
Page 17 of 18

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1804K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 259570

Sample ID: MB-259570	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368635							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 259570	Analysis Date: 04/23/2018	Seq No: 8162331							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-259570	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368635							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259570	Analysis Date: 04/23/2018	Seq No: 8162332							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5443 5000 5000 50.80 108 80 120
 Barium 4957 500 5000 99.1 80 120

Sample ID: 1804K34-001AMS	Client ID: DCS-34	Units: mg/Kg-dry	Prep Date: 04/23/2018	Run No: 368635							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 259570	Analysis Date: 04/23/2018	Seq No: 8162334							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 3.421 3.14 3.145 0.7104 86.2 75 125
 Barium 23.61 6.29 3.145 21.01 82.9 75 125

Sample ID: 1804K34-001AMSD	Client ID: DCS-34	Units: mg/Kg-dry	Prep Date: 04/23/2018	Run No: 368635							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 259570	Analysis Date: 04/23/2018	Seq No: 8162339							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 3.683 3.14 3.142 0.7104 94.6 75 125 3.421 7.37 20
 Barium 26.86 6.28 3.142 21.01 186 75 125 23.61 12.9 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 03, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1803Q89

Analytical Environmental Services, Inc. received 2 samples on 3/27/2018 11:18:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 3-Apr-18

Client: Georgia Power Company	Client Sample ID: DSCS-11
Project Name: Plant Kraft Excavation	Collection Date: 3/26/2018 11:45:00 AM
Lab ID: 1803Q89-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	258085	20	03/28/2018 17:13	DP
Barium	20.5	8.64		mg/Kg-dry	258085	20	03/28/2018 17:13	DP
PERCENT MOISTURE D2216								
Percent Moisture	16.4	0		wt%	R366415	1	03/27/2018 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1803Q89

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 4.6 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). ES 3/27/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). ES 3/27/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). ES 3/27/18

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1803Q89

ANALYTICAL QC SUMMARY REPORT

BatchID: 258085

Sample ID: MB-258085	Client ID:	Units: ug/Kg	Prep Date: 03/28/2018	Run No: 366518							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 258085	Analysis Date: 03/28/2018	Seq No: 8110529							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-258085	Client ID:	Units: ug/Kg	Prep Date: 03/28/2018	Run No: 366518							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 258085	Analysis Date: 03/28/2018	Seq No: 8108266							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5504 5500 5000 137.7 107 80 120
 Barium 5085 500 5000 102 80 120

Sample ID: 1803Q89-001AMS	Client ID: DSCS-10	Units: mg/Kg-dry	Prep Date: 03/28/2018	Run No: 366518							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 258085	Analysis Date: 03/28/2018	Seq No: 8108268							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 12.13 12.0 4.412 7.207 112 75 125
 Barium 47.61 8.82 4.412 46.70 20.7 75 125 S

Sample ID: 1803Q89-001AMSD	Client ID: DSCS-10	Units: mg/Kg-dry	Prep Date: 03/28/2018	Run No: 366518							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 258085	Analysis Date: 03/28/2018	Seq No: 8108269							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 12.73 12.0 4.401 7.207 125 75 125 12.13 4.80 20 S
 Barium 60.01 8.80 4.401 46.70 302 75 125 47.61 23.0 20 SR

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 05, 2018

Lea Millet
Georgia Power Company

241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1802134

Analytical Environmental Services, Inc. received 6 samples on 2/2/2018 8:00:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1802134

Case Narrative

Metals Analysis by Method 6020B:

Due to sample matrix, sample 1802134-001A, -002A, -003A, -004A, and -005 A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 5-Feb-18

Client: Georgia Power Company	Client Sample ID: DSCS-02
Project Name: Plant Kraft Excavation	Collection Date: 1/29/2018 12:20:00 PM
Lab ID: 1802134-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.94		mg/Kg-dry	255179	20	02/05/2018 15:44	DP
Barium	40.9	10.6		mg/Kg-dry	255179	20	02/05/2018 15:44	DP
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R362317	1	02/05/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-Feb-18

Client: Georgia Power Company	Client Sample ID: DSCS-03
Project Name: Plant Kraft Excavation	Collection Date: 1/30/2018 9:50:00 AM
Lab ID: 1802134-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.21		mg/Kg-dry	255179	20	02/05/2018 15:46	DP
Barium	42.6	9.12		mg/Kg-dry	255179	20	02/05/2018 15:46	DP
PERCENT MOISTURE D2216								
Percent Moisture	11.3	0		wt%	R362317	1	02/05/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-Feb-18

Client: Georgia Power Company	Client Sample ID: DSCS-05
Project Name: Plant Kraft Excavation	Collection Date: 1/31/2018 3:00:00 PM
Lab ID: 1802134-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.80		mg/Kg-dry	255179	20	02/05/2018 15:50	DP
Barium	16.2	7.09		mg/Kg-dry	255179	20	02/05/2018 15:50	DP
PERCENT MOISTURE D2216								
Percent Moisture	6.46	0		wt%	R362317	1	02/05/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-Feb-18

Client: Georgia Power Company	Client Sample ID: RVCS-12-SW
Project Name: Plant Kraft Excavation	Collection Date: 1/31/2018 10:30:00 AM
Lab ID: 1802134-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	24.5	7.63		mg/Kg-dry	255179	20	02/05/2018 15:52	DP
Barium	113	7.63		mg/Kg-dry	255179	20	02/05/2018 15:52	DP
PERCENT MOISTURE D2216								
Percent Moisture	17.4	0		wt%	R362317	1	02/05/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1802134

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/2/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TD 2/2/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). TD 2/2/18

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1802134

ANALYTICAL QC SUMMARY REPORT

BatchID: 255179

Sample ID: MB-255179	Client ID:	Units: ug/Kg	Prep Date: 02/02/2018	Run No: 362352							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 255179	Analysis Date: 02/05/2018	Seq No: 8004228							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-255179	Client ID:	Units: ug/Kg	Prep Date: 02/02/2018	Run No: 362352							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255179	Analysis Date: 02/05/2018	Seq No: 8004229							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4482 4000 5000 113.3 87.4 80 120
 Barium 5121 500 5000 102 80 120

Sample ID: 1802134-001AMS	Client ID: DSCS-01	Units: mg/Kg-dry	Prep Date: 02/02/2018	Run No: 362352							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255179	Analysis Date: 02/05/2018	Seq No: 8004233							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.87 4.371 2.555 100 75 125
 Barium 55.63 8.74 4.371 45.19 239 75 125 S

Sample ID: 1802134-001AMSD	Client ID: DSCS-01	Units: mg/Kg-dry	Prep Date: 02/02/2018	Run No: 362352							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 255179	Analysis Date: 02/05/2018	Seq No: 8004234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 131 4.360 2.555 108 75 125 6.930 0 20
 Barium 72.25 8.72 4.360 45.19 621 75 125 55.63 26.0 20 SR

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 13, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1802818

Analytical Environmental Services, Inc. received 3 samples on 2/9/2018 9:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 13-Feb-18

Client: Georgia Power Company	Client Sample ID: DSCS-07
Project Name: Plant Kraft Excavation	Collection Date: 2/8/2018 8:30:00 AM
Lab ID: 1802818-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.30		mg/Kg-dry	255641	50	02/12/2018 13:30	TA
Barium	51.7	10.8		mg/Kg-dry	255641	20	02/12/2018 13:10	TA
PERCENT MOISTURE D2216								
Percent Moisture	30.3	0		wt%	R362796	1	02/12/2018 12:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1802818

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). KR 2/9/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). KR 2/9/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). KR 2/9/18



Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1802818

ANALYTICAL QC SUMMARY REPORT

BatchID: 255641

Sample ID: MB-255641	Client ID:	Units: ug/Kg	Prep Date: 02/09/2018	Run No: 362822							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 255641	Analysis Date: 02/12/2018	Seq No: 8015368							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-255641	Client ID:	Units: ug/Kg	Prep Date: 02/09/2018	Run No: 362822							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255641	Analysis Date: 02/12/2018	Seq No: 8015369							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6157 6100 5000 136.5 120 80 120 S
 Barium 4871 500 5000 97.4 80 120

Sample ID: LCS-255641	Client ID:	Units: ug/Kg	Prep Date: 02/09/2018	Run No: 362822							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255641	Analysis Date: 02/12/2018	Seq No: 8016269							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5711 5500 5000 136.5 111 80 120

Sample ID: 1802818-001AMS	Client ID: DSCS-06	Units: mg/Kg-dry	Prep Date: 02/09/2018	Run No: 362822							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255641	Analysis Date: 02/12/2018	Seq No: 8015371							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4.427 4.24 3.535 1.703 77.1 75 125
 Barium 16.86 7.07 3.535 12.90 112 75 125

Sample ID: 1802818-001AMSD	Client ID: DSCS-06	Units: mg/Kg-dry	Prep Date: 02/09/2018	Run No: 362822							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 255641	Analysis Date: 02/12/2018	Seq No: 8015372							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.005 4.23 3.528 1.703 93.6 75 125 4.427 12.2 20
 Barium 13.90 7.06 3.528 12.90 28.5 75 125 16.86 19.2 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 20, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1802F18

Analytical Environmental Services, Inc. received 4 samples on 2/16/2018 8:06:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 20-Feb-18

Client: Georgia Power Company	Client Sample ID: DSCS-08
Project Name: Plant Kraft Excavation	Collection Date: 2/13/2018 11:05:00 AM
Lab ID: 1802F18-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	255970	20	02/19/2018 13:28	DP
Barium	47.0	0.56		mg/Kg-dry	255970	20	02/19/2018 13:28	DP
PERCENT MOISTURE D2216								
Percent Moisture	11.4	0		wt%	R363370	1	02/19/2018 13:30	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Feb-18

Client: Georgia Power Company	Client Sample ID: RVCS-13SW
Project Name: Plant Kraft Excavation	Collection Date: 2/14/2018 9:00:00 AM
Lab ID: 1802F18-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	50.6	8.94		mg/Kg-dry	255970	50	02/19/2018 13:43	DP
Barium	200	0.60		mg/Kg-dry	255970	50	02/19/2018 13:43	DP
PERCENT MOISTURE D2216								
Percent Moisture	34.9	0		wt%	R363370	1	02/19/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Feb-18

Client: Georgia Power Company	Client Sample ID: RVCS-14SW
Project Name: Plant Kraft Excavation	Collection Date: 2/14/2018 9:25:00 AM
Lab ID: 1802F18-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	40.8	12.9		mg/Kg-dry	255970	50	02/19/2018 13:45	DP
Barium	243	0.86		mg/Kg-dry	255970	50	02/19/2018 13:45	DP
PERCENT MOISTURE D2216								
Percent Moisture	43.5	0		wt%	R363370	1	02/19/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1802F18

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). EDM 2/16/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). EDM 2/16/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). EDM 2/16/18
Page 7 of 8



Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1802F18

ANALYTICAL QC SUMMARY REPORT

BatchID: 255970

Sample ID: MB-255970	Client ID:	Units: ug/Kg	Prep Date: 02/16/2018	Run No: 363392							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 255970	Analysis Date: 02/19/2018	Seq No: 8028519							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-255970	Client ID:	Units: ug/Kg	Prep Date: 02/16/2018	Run No: 363392							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255970	Analysis Date: 02/19/2018	Seq No: 8028520							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6016 5500 5000 95.14 118 80 120
 Barium 5068 500 5000 101 80 120

Sample ID: 1802F18-001AMS	Client ID: DSCS-07	Units: mg/Kg-dry	Prep Date: 02/16/2018	Run No: 363392							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255970	Analysis Date: 02/19/2018	Seq No: 8028531							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6.405 5.25 4.371 2.683 85.2 75 125
 Barium 35.34 8.74 4.371 30.25 116 75 125

Sample ID: 1802F18-001AMSD	Client ID: DSCS-07	Units: mg/Kg-dry	Prep Date: 02/16/2018	Run No: 363392							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 255970	Analysis Date: 02/19/2018	Seq No: 8028532							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6.114 5.24 4.371 2.683 78.5 75 125 6.405 4.65 20
 Barium 28.65 8.74 4.371 30.25 -36.7 75 125 35.34 20.9 20 SR

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 04, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705229

Analytical Environmental Services, Inc. received 4 samples on May 3, 2017 10:10 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: APCS-18
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 2:25:00 PM
Lab ID: 1705229-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.80		mg/Kg-dry	241933	5	05/03/2017 18:25	JR
Barium	72.4	2.93		mg/Kg-dry	241933	5	05/03/2017 18:25	JR
Beryllium	0.63	0.29		mg/Kg-dry	241933	5	05/03/2017 18:25	JR
PERCENT MOISTURE D2216								
Percent Moisture	29.3	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: APCS-19
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 2:30:00 PM
Lab ID: 1705229-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	8.51	7.36		mg/Kg-dry	241933	5	05/03/2017 18:31	JR
Barium	730	2.45		mg/Kg-dry	241933	5	05/03/2017 18:31	JR
Beryllium	0.82	0.24		mg/Kg-dry	241933	5	05/03/2017 18:31	JR
PERCENT MOISTURE D2216								
Percent Moisture	28.8	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-01
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 3:45:00 PM
Lab ID: 1705229-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.44		mg/Kg-dry	241933	5	05/03/2017 18:37	JR
Barium	32.9	1.81		mg/Kg-dry	241933	5	05/03/2017 18:37	JR
Beryllium	0.19	0.18		mg/Kg-dry	241933	5	05/03/2017 18:37	JR
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-02
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 3:50:00 PM
Lab ID: 1705229-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.51		mg/Kg-dry	241933	5	05/03/2017 18:43	JR
Barium	13.7	1.84		mg/Kg-dry	241933	5	05/03/2017 18:43	JR
Beryllium	BRL	0.04		mg/Kg-dry	241933	5	05/03/2017 18:43	JR
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705229

ANALYTICAL QC SUMMARY REPORT

BatchID: 241933

Sample ID: MB-241933	Client ID:	Units: ug/Kg	Prep Date: 05/02/2017	Run No: 342046							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492483							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241933	Client ID:	Units: ug/Kg	Prep Date: 05/02/2017	Run No: 342046							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492484							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4375	1500	5000	75.50	86.0	80	120				
Barium	5160	500	5000	431.3	94.6	80	120				
Beryllium	5585	50.0	5000		112	80	120				

Sample ID: 1705080-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/02/2017	Run No: 342046							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492486							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	19320	6830	4556	13950	118	75	125				
Barium	216100	2280	4556	202700	295	75	125				S
Beryllium	6693	228	4556	1319	118	75	125				

Sample ID: 1705080-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/02/2017	Run No: 342046							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492487							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	17230	6840	4561	13950	71.9	75	125	19320	11.4	20	S
Barium	197700	2280	4561	202700	-108	75	125	216100	8.89	20	S
Beryllium	6668	228	4561	1319	117	75	125	6693	0.380	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 05, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705355

Analytical Environmental Services, Inc. received 8 samples on 5/4/2017 10:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-20
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 10:30:00 AM
Lab ID: 1705355-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.28		mg/Kg-dry	241300	1	05/04/2017 20:26	JS
Barium	24.1	0.35		mg/Kg-dry	241300	1	05/04/2017 20:26	JS
Beryllium	0.09	0.04		mg/Kg-dry	241300	1	05/04/2017 20:26	JS
PERCENT MOISTURE D2216								
Percent Moisture	17.7	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-21
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 10:35:00 AM
Lab ID: 1705355-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	9.38	7.91		mg/Kg-dry	241300	1	05/04/2017 20:32	JS
Barium	48.8	0.53		mg/Kg-dry	241300	1	05/04/2017 20:32	JS
Beryllium	0.26	0.05		mg/Kg-dry	241300	1	05/04/2017 20:32	JS
PERCENT MOISTURE D2216								
Percent Moisture	21.3	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-22
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 3:18:00 PM
Lab ID: 1705355-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.04		mg/Kg-dry	241300	1	05/04/2017 20:38	JS
Barium	6.99	0.40		mg/Kg-dry	241300	1	05/04/2017 20:38	JS
Beryllium	0.05	0.04		mg/Kg-dry	241300	1	05/04/2017 20:38	JS
PERCENT MOISTURE D2216								
Percent Moisture	13.9	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-23
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 3:25:00 PM
Lab ID: 1705355-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	17.0	8.18		mg/Kg-dry	241300	1	05/04/2017 20:45	JS
Barium	53.3	0.55		mg/Kg-dry	241300	1	05/04/2017 20:45	JS
Beryllium	0.36	0.05		mg/Kg-dry	241300	1	05/04/2017 20:45	JS
PERCENT MOISTURE D2216								
Percent Moisture	11.0	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-03
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 10:50:00 AM
Lab ID: 1705355-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.39		mg/Kg-dry	241300	1	05/04/2017 20:51	JS
Barium	25.4	0.49		mg/Kg-dry	241300	1	05/04/2017 20:51	JS
Beryllium	0.18	0.05		mg/Kg-dry	241300	1	05/04/2017 20:51	JS
PERCENT MOISTURE D2216								
Percent Moisture	6.14	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-04
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 1:50:00 PM
Lab ID: 1705355-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.75		mg/Kg-dry	241300	1	05/04/2017 20:57	JS
Barium	55.2	0.45		mg/Kg-dry	241300	1	05/04/2017 20:57	JS
Beryllium	0.11	0.04		mg/Kg-dry	241300	1	05/04/2017 20:57	JS
PERCENT MOISTURE D2216								
Percent Moisture	8.51	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-05
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 1:55:00 PM
Lab ID: 1705355-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.96		mg/Kg-dry	241300	1	05/04/2017 21:03	JS
Barium	75.1	0.40		mg/Kg-dry	241300	1	05/04/2017 21:03	JS
Beryllium	0.12	0.04		mg/Kg-dry	241300	1	05/04/2017 21:03	JS
PERCENT MOISTURE D2216								
Percent Moisture	11.4	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-06
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 2:00:00 PM
Lab ID: 1705355-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.93		mg/Kg-dry	241300	1	05/04/2017 21:09	JS
Barium	69.8	0.53		mg/Kg-dry	241300	1	05/04/2017 21:09	JS
Beryllium	0.10	0.05		mg/Kg-dry	241300	1	05/04/2017 21:09	JS
PERCENT MOISTURE D2216								
Percent Moisture	8.35	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705355

ANALYTICAL QC SUMMARY REPORT

BatchID: 241300

Sample ID: MB-241300	Client ID:	Units: ug/Kg	Prep Date: 05/04/2017	Run No: 342266							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498339							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241300	Client ID:	Units: ug/Kg	Prep Date: 05/04/2017	Run No: 342266							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498340							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4294	1500	5000	113.6	83.6	80	120				
Barium	5010	500	5000		100	80	120				
Beryllium	5035	50.0	5000		101	80	120				

Sample ID: 1705354-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 05/04/2017	Run No: 342266							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498343							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	10.19	5.83	3.885	8.170	51.9	75	125				S
Barium	146.3	1.94	3.885	141.6	122	75	125				
Beryllium	5.206	0.19	3.885	0.8569	112	75	125				

Sample ID: 1705354-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 05/04/2017	Run No: 342266							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498344							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	12.14	5.81	3.875	8.170	102	75	125	12.14	0	20	
Barium	142.4	1.94	3.875	141.6	19.8	75	125	142.4	0	20	S
Beryllium	5.154	0.19	3.875	0.8569	111	75	125	5.154	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



May 10, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705802

Analytical Environmental Services, Inc. received 2 samples on 5/9/2017 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/16-06/30/17 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
 3080 Presidential Drive Atlanta, GA 30340-3704
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1705802
 Date: 5/8/17 Page 1 of 1

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill</u>		ANALYSIS REQUESTED						Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AES Access account.		Number of Containers	
PHONE: <u>770-296-9648</u>		EMAIL: <u>forrest.howard@ge.com</u>		EPA 6020 AS, BayBe PRESERVATION (see codes) I						REMARKS			
SAMPLED BY: <u>Forrest Howard</u>		SIGNATURE:								SAMPLED:		GRAB	
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)							
1	<u>EAPCS-07</u>	<u>5/4/17</u>	<u>0815</u>	<u>X</u>		<u>SO</u>	<u>X</u>				<u>1</u>		
2	<u>EAPCS-08</u>	<u>5/8/17</u>	<u>1548</u>	<u>X</u>		<u>SO</u>	<u>X</u>						
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY: <u>Tooley</u>		DATE/TIME:		PROJECT INFORMATION				RECEIPT	
1.				1. <u>Tooley</u>				PROJECT NAME: <u>Plant Kraft Examination</u>				Total # of Containers	
2.				2. <u>Nguyen 5/9/17 10:25</u>				PROJECT #: _____				Turnaround Time (TAT) Request	
3.				3.				SITE ADDRESS: <u>Plant Kraft Port Wentworth GA</u>				<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____	
SPECIAL INSTRUCTIONS/COMMENTS: <u>Report to:</u> <u>Stephen Willson</u> <u>Forrest Howard</u> <u>Ken Miller</u> <u>Mick Hymus</u>		SHIPMENT METHOD		OUT: / / VIA:		IN: / / VIA:		SEND REPORT TO: <u>in comments</u>				STATE PROGRAM (if any): _____	
		client FedEx UPS US mail courier Greyhound		other: _____				INVOICE TO: <u>GPC Environmental Affairs</u> (IF DIFFERENT FROM ABOVE) <u>sent with AES FedEx account</u>				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
								QUOTE #: _____ PO#: _____				DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
 Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 10-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-07
Project Name: Plant Kraft Excavation	Collection Date: 5/4/2017 8:15:00 AM
Lab ID: 1705802-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.32		mg/Kg-dry	242351	1	05/10/2017 15:16	JR
Barium	5.47	0.49		mg/Kg-dry	242351	1	05/10/2017 15:16	JR
Beryllium	0.06	0.05		mg/Kg-dry	242351	1	05/10/2017 15:16	JR
PERCENT MOISTURE D2216								
Percent Moisture	5.37	0		wt%	R342707	1	05/10/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-08
Project Name: Plant Kraft Excavation	Collection Date: 5/8/2017 3:48:00 PM
Lab ID: 1705802-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.36		mg/Kg-dry	242351	1	05/10/2017 15:53	JR
Barium	12.9	0.56		mg/Kg-dry	242351	1	05/10/2017 15:53	JR
Beryllium	0.09	0.06		mg/Kg-dry	242351	1	05/10/2017 15:53	JR
PERCENT MOISTURE D2216								
Percent Moisture	13.1	0		wt%	R342707	1	05/10/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705802

ANALYTICAL QC SUMMARY REPORT

BatchID: 242351

Sample ID: MB-242351	Client ID:	Units: ug/Kg	Prep Date: 05/10/2017	Run No: 342744							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 242351	Analysis Date: 05/10/2017	Seq No: 7511789							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-242351	Client ID:	Units: ug/Kg	Prep Date: 05/10/2017	Run No: 342744							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242351	Analysis Date: 05/10/2017	Seq No: 7511790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4523	1500	5000		90.5	80	120				
Barium	4424	500	5000		88.5	80	120				
Beryllium	4032	50.0	5000		80.6	80	120				

Sample ID: 1705802-001AMS	Client ID: EAPCS-07	Units: mg/Kg-dry	Prep Date: 05/10/2017	Run No: 342744							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242351	Analysis Date: 05/10/2017	Seq No: 7511793							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	9.110	7.30	4.868	5.236	79.6	75	125				
Barium	9.858	0.49	4.868	5.474	90.1	75	125				
Beryllium	3.706	0.05	4.868	0.06412	74.8	75	125				S

Sample ID: 1705802-001AMSD	Client ID: EAPCS-07	Units: mg/Kg-dry	Prep Date: 05/10/2017	Run No: 342744							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242351	Analysis Date: 05/10/2017	Seq No: 7511792							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	9.342	7.32	4.883	5.236	84.1	75	125	0	0	20	
Barium	9.955	0.49	4.883	5.474	91.8	75	125	0	0	20	
Beryllium	3.764	0.05	4.883	0.06412	75.8	75	125	0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



May 11, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705917

Analytical Environmental Services, Inc. received 5 samples on 5/10/2017 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/16-06/30/17 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 11-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-09
Project Name: Plant Kraft Excavation	Collection Date: 5/9/2017 8:50:00 AM
Lab ID: 1705917-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.83		mg/Kg-dry	242351	10	05/11/2017 12:37	JR
Barium	24.1	0.39		mg/Kg-dry	242351	10	05/10/2017 22:29	JR
Beryllium	BRL	0.00		mg/Kg-dry	242351	10	05/10/2017 22:29	JR
PERCENT MOISTURE D2216								
Percent Moisture	8.54	0		wt%	R342850	1	05/11/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-10
Project Name: Plant Kraft Excavation	Collection Date: 5/9/2017 9:40:00 AM
Lab ID: 1705917-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.06		mg/Kg-dry	242351	10	05/11/2017 12:43	JR
Barium	32.7	0.40		mg/Kg-dry	242351	10	05/10/2017 22:35	JR
Beryllium	BRL	0.00		mg/Kg-dry	242351	10	05/10/2017 22:35	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R342850	1	05/11/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-11
Project Name: Plant Kraft Excavation	Collection Date: 5/9/2017 2:30:00 PM
Lab ID: 1705917-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.24		mg/Kg-dry	242351	10	05/11/2017 12:50	JR
Barium	40.8	0.42		mg/Kg-dry	242351	10	05/10/2017 22:42	JR
Beryllium	BRL	0.00		mg/Kg-dry	242351	10	05/10/2017 22:42	JR
PERCENT MOISTURE D2216								
Percent Moisture	11.3	0		wt%	R342850	1	05/11/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-12
Project Name: Plant Kraft Excavation	Collection Date: 5/9/2017 2:40:00 PM
Lab ID: 1705917-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.63		mg/Kg-dry	242351	10	05/11/2017 12:56	JR
Barium	8.42	0.51		mg/Kg-dry	242351	10	05/10/2017 22:48	JR
Beryllium	BRL	0.01		mg/Kg-dry	242351	10	05/10/2017 22:48	JR
PERCENT MOISTURE D2216								
Percent Moisture	3.99	0		wt%	R342850	1	05/11/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-13
Project Name: Plant Kraft Excavation	Collection Date: 5/9/2017 4:20:00 PM
Lab ID: 1705917-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.56		mg/Kg-dry	242351	10	05/11/2017 13:02	JR
Barium	16.8	0.44		mg/Kg-dry	242351	10	05/10/2017 22:54	JR
Beryllium	BRL	0.00		mg/Kg-dry	242351	10	05/10/2017 22:54	JR
PERCENT MOISTURE D2216								
Percent Moisture	7.44	0		wt%	R342850	1	05/11/2017 07:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705917

ANALYTICAL QC SUMMARY REPORT

BatchID: 242351

Sample ID: MB-242351	Client ID:	Units: ug/Kg	Prep Date: 05/10/2017	Run No: 342744							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 242351	Analysis Date: 05/10/2017	Seq No: 7511789							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-242351	Client ID:	Units: ug/Kg	Prep Date: 05/10/2017	Run No: 342744							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242351	Analysis Date: 05/10/2017	Seq No: 7511790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4523	1500	5000		90.5	80	120				
Barium	4424	500	5000		88.5	80	120				
Beryllium	4032	50.0	5000		80.6	80	120				

Sample ID: 1705802-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/10/2017	Run No: 342744							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242351	Analysis Date: 05/10/2017	Seq No: 7511793							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	9110	7300	4868	5236	79.6	75	125				
Barium	9858	487	4868	5474	90.1	75	125				
Beryllium	3706	48.7	4868	64.12	74.8	75	125				S

Sample ID: 1705802-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/10/2017	Run No: 342744							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242351	Analysis Date: 05/10/2017	Seq No: 7511792							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	9342	7320	4883	5236	84.1	75	125	0	0	20	
Barium	9955	488	4883	5474	91.8	75	125	0	0	20	
Beryllium	3764	48.8	4883	64.12	75.8	75	125	0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 10, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1707410

Analytical Environmental Services, Inc. received 2 samples on 7/7/2017 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



CHAIN OF CUSTODY

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE 101ES Atlanta, GA 30308</u>			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AES Access account.	Number of Containers								
PHONE: <u>770-296-9648</u>		EMAIL: <u>Ernest.Howard@aesatlanta.com</u>			TPH-DRO																			
SAMPLED BY: <u>Ernest Howard</u>		SIGNATURE:				PRESERVATION (see codes)																		
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)											REMARKS							
		DATE	TIME																					
1	<u>PCS-02</u>	<u>7/6/17</u>	<u>0918</u>	<u>X</u>		<u>SO</u>	<u>X</u>																	
2	<u>PCS-03</u>	<u>7/6/17</u>	<u>0920</u>	<u>X</u>		<u>SO</u>	<u>X</u>																	
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

RELINQUISHED BY:	DATE/TIME: <u>7/6/17 1700</u>	RECEIVED BY: <u>To FedEx</u>	DATE/TIME: <u>7/7/2017 10:25AM</u>	PROJECT INFORMATION										RECEIPT					
1.		2. <u>Muhammad Saad</u>		PROJECT NAME: <u>Plant Kraft Extension</u>											Total # of Containers				
2.		3.		PROJECT #: _____											Turnaround Time (TAT) Request				
3.				SITE ADDRESS: <u>Plant Kraft, Plant west in GA</u>											<input type="checkbox"/> Standard 5 Business Days				
SPECIAL INSTRUCTIONS/COMMENTS: <u>Report to:</u> <u>Ernest Howard</u> <u>Stephen Wilson</u> <u>Grant Galbraith</u> <u>Kevin Met</u> <u>Walt Howard</u>				SHIPMENT METHOD				SEND REPORT TO: <u>in comments</u>										<input type="checkbox"/> 2 Business Day Rush	
				OUT: <u>1</u> / <u>1</u> VIA: <u>air</u>				INVOICE TO: <u>GPC Environmental Affairs</u>										<input checked="" type="checkbox"/> Next Business Day Rush	
				IN: <u>1</u> / <u>1</u> VIA: _____				(IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same-Day Rush (auth req.)	
				client: <u>FedEx</u> UPS US mail courier Greyhound				QUOTE #: _____ PO#: _____										<input type="checkbox"/> Other _____	
				other: _____														STATE PROGRAM (if any): _____	
																		E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
																		DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>	

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1707410

Case Narrative

Sample Receiving Nonconformance:

Sample information on the Chain of Custody (COC) did not match that on the sample bottle labels. The COC lists an invalid collection date of "7/16/17." Samples were logged in using the collection date of 7/06/17, as indicated on the bottle label,.

Analytical Environmental Services, Inc

Date: 10-Jul-17

Client: Georgia Power Company	Client Sample ID: PCS-02
Project Name: Plant Kraft Excavation	Collection Date: 7/6/2017 9:18:00 AM
Lab ID: 1707410-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	245078	1	07/07/2017 15:41	RF
Surr: Dioctylphthalate	72.3	54.5-121		%REC	245078	1	07/07/2017 15:41	RF
PERCENT MOISTURE D2216								
Percent Moisture	10.7	0		wt%	R347198	1	07/10/2017 15:02	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Jul-17

Client: Georgia Power Company	Client Sample ID: PCS-03
Project Name: Plant Kraft Excavation	Collection Date: 7/6/2017 9:20:00 AM
Lab ID: 1707410-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	245078	1	07/07/2017 16:04	RF
Surr: Dioctylphthalate	72	54.5-121		%REC	245078	1	07/07/2017 16:04	RF
PERCENT MOISTURE D2216								
Percent Moisture	11.2	0		wt%	R347198	1	07/10/2017 15:02	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1707410

ANALYTICAL QC SUMMARY REPORT

BatchID: 245078

Sample ID: MB-245078	Client ID:	Units: mg/Kg	Prep Date: 07/07/2017	Run No: 347107							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 245078	Analysis Date: 07/07/2017	Seq No: 7622752							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.576 0 3.300 78.1 54.5 121

Sample ID: LCS-245078	Client ID:	Units: mg/Kg	Prep Date: 07/07/2017	Run No: 347107							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 245078	Analysis Date: 07/07/2017	Seq No: 7622753							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 37.10 6.7 33.30 2.617 104 54.6 120
 Surr: Dioctylphthalate 2.819 0 3.330 84.7 54.5 121

Sample ID: 1707127-001BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 07/07/2017	Run No: 347107							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 245078	Analysis Date: 07/07/2017	Seq No: 7622758							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dioctylphthalate 3.709 0 3.712 99.9 54.5 121

Sample ID: 1707127-001BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 07/07/2017	Run No: 347107							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 245078	Analysis Date: 07/07/2017	Seq No: 7624066							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 10220 1500 37.12 12420 -5930 40.6 122 S

Sample ID: 1707127-001BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 07/07/2017	Run No: 347107							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 245078	Analysis Date: 07/07/2017	Seq No: 7622788							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dioctylphthalate 3.458 0 3.712 93.2 54.5 121 3.709 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1707410

ANALYTICAL QC SUMMARY REPORT

BatchID: 245078

Sample ID: 1707127-001BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 07/07/2017	Run No: 347107
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 245078	Analysis Date: 07/07/2017	Seq No: 7624067

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
TPH (Diesel Range Organics)	9811	1500	37.12	12420	-7030	40.6	122	10220	4.08	29.9	S

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: PCS-01
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 3:55:00 PM
Lab ID: 1706R44-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	440	35		mg/Kg-dry	244800	5	06/30/2017 08:56	RF
Surr: Dioctylphthalate	81.4	54.5-121		%REC	244800	1	06/29/2017 18:16	RF
PERCENT MOISTURE D2216								
Percent Moisture	3.11	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



May 15, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705A42

Analytical Environmental Services, Inc. received 4 samples on May 11, 2017 10:30 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/16-06/30/17 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and

Tyrel Heckendorf
Project Manager

Revision 5/15/2017

Client: Georgia Power Company
Project: Plant Kraft Excavation
Lab ID: 1705A42

Case Narrative

Metals Analysis by Method 6020B:

Copper was detected in Method Blank 242467 at 165.15 µg/Kg which was above reporting limit of 100 µg/Kg resulting in "B" qualified data for all samples with final Reporting Limits less than the value detected in the Method Blank. Associated sample values were greater than approximately 10X the blank value and data was not affected.

Analytical Environmental Services, Inc

Date: 15-May-17

Client: Georgia Power Company	Client Sample ID: MR-01
Project Name: Plant Kraft Excavation	Collection Date: 5/10/2017 10:15:00 AM
Lab ID: 1705A42-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	0.561	0.101		mg/Kg-dry	242504	1	05/12/2017 16:17	AS
Metals by ICP/MS SW6020B					(SW3050B)			
Antimony	0.73	0.64		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Arsenic	161	63.7		mg/Kg-dry	242467	50	05/12/2017 16:30	JR
Barium	140	0.42		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Beryllium	0.69	0.04		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Cadmium	0.07	0.04		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Chromium	13.3	4.24		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Copper	24.4	0.42		mg/Kg-dry	242467	5	05/12/2017 19:09	JR
Lead	23.6	0.21		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Nickel	8.99	1.06		mg/Kg-dry	242467	5	05/12/2017 19:09	JR
Selenium	6.78	1.06		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Silver	0.05	0.04		mg/Kg-dry	242467	5	05/12/2017 19:09	JR
Thallium	1.67	0.21		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Zinc	59.4	2.12		mg/Kg-dry	242467	5	05/12/2017 19:09	JR
PERCENT MOISTURE D2216								
Percent Moisture	5.88	0		wt%	R342962	1	05/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-15
Project Name: Plant Kraft Excavation	Collection Date: 5/10/2017 1:55:00 PM
Lab ID: 1705A42-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.68		mg/Kg-dry	242467	5	05/12/2017 15:22	JR
Barium	25.2	0.38		mg/Kg-dry	242467	5	05/12/2017 15:22	JR
Beryllium	0.24	0.04		mg/Kg-dry	242467	5	05/12/2017 15:22	JR
PERCENT MOISTURE D2216								
Percent Moisture	5.23	0		wt%	R342962	1	05/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-May-17

Client: Georgia Power Company	Client Sample ID: APCS-19A
Project Name: Plant Kraft Excavation	Collection Date: 5/10/2017 3:10:00 PM
Lab ID: 1705A42-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.66		mg/Kg-dry	242467	5	05/12/2017 14:38	JR
Barium	40.3	0.58		mg/Kg-dry	242467	5	05/12/2017 14:38	JR
Beryllium	0.99	0.06		mg/Kg-dry	242467	5	05/12/2017 14:38	JR
PERCENT MOISTURE D2216								
Percent Moisture	28.1	0		wt%	R342962	1	05/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705A42

ANALYTICAL QC SUMMARY REPORT

BatchID: 242467

Sample ID: MB-242467	Client ID:	Units: ug/Kg	Prep Date: 05/11/2017	Run No: 342975							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517275							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	BRL	250									
Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									
Cadmium	BRL	50.0									
Chromium	BRL	1000									
Lead	BRL	50.0									
Selenium	BRL	2500									
Thallium	BRL	50.0									

Sample ID: MB-242467	Client ID:	Units: ug/Kg	Prep Date: 05/11/2017	Run No: 342991							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517774							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nickel	BRL	250									
Silver	BRL	50.0									
Zinc	BRL	500									

Sample ID: MB-242467	Client ID:	Units: ug/Kg	Prep Date: 05/11/2017	Run No: 342975							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517830							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	165.2	100									B
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Sample ID: LCS-242467	Client ID:	Units: ug/Kg	Prep Date: 05/11/2017	Run No: 342975							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517276							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705A42

ANALYTICAL QC SUMMARY REPORT

BatchID: 242467

Sample ID: LCS-242467	Client ID:	Units: ug/Kg	Prep Date: 05/11/2017	Run No: 342975							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517276							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	5445	250	5000	133.4	106	80	120				
Arsenic	4948	1500	5000	86.05	97.2	80	120				
Barium	5540	500	5000		111	80	120				
Beryllium	5555	50.0	5000		111	80	120				
Cadmium	5255	50.0	5000		105	80	120				
Chromium	5985	1000	5000	280.7	114	80	120				
Lead	5705	50.0	5000		114	80	120				
Selenium	4701	2500	5000	112.0	91.8	80	120				
Thallium	5615	50.0	5000	44.00	111	80	120				

Sample ID: LCS-242467	Client ID:	Units: ug/Kg	Prep Date: 05/11/2017	Run No: 342991							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517775							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nickel	4825	250	5000	168.4	93.1	80	120				
Silver	479.8	50.0	500.0	5.417	94.9	80	120				
Zinc	4992	500	5000	105.0	97.7	80	120				

Sample ID: LCS-242467	Client ID:	Units: ug/Kg	Prep Date: 05/11/2017	Run No: 342975							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517831							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	5895	100	5000	165.2	115	80	120				B
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Sample ID: 1705A42-004AMS	Client ID: APCS-19A	Units: ug/Kg-dry	Prep Date: 05/11/2017	Run No: 342975							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517278							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705A42

ANALYTICAL QC SUMMARY REPORT

BatchID: 242467

Sample ID: 1705A42-004AMS	Client ID: APCS-19A	Units: ug/Kg-dry	Prep Date: 05/11/2017	Run No: 342975							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517278							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	3550	1440	5773	419.4	54.2	75	125				S
Arsenic	9410	8660	5773	2938	112	75	125				
Barium	52620	577	5773	40300	214	75	125				S
Beryllium	8221	57.7	5773	994.4	125	75	125				S
Cadmium	6763	289	5773		117	75	125				
Chromium	31060	5770	5773	21240	170	75	125				S
Lead	18800	289	5773	11180	132	75	125				S
Selenium	4988	1440	5773		86.4	75	125				
Thallium	6907	289	5773	194.3	116	75	125				

Sample ID: 1705A42-004AMS	Client ID: APCS-19A	Units: ug/Kg-dry	Prep Date: 05/11/2017	Run No: 342991							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517776							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	11080	577	5773	6869	72.9	75	125				S
Nickel	8884	1440	5773	4414	77.4	75	125				
Silver	426.4	289	577.3		73.9	75	125				S
Zinc	21900	2890	5773	20070	31.8	75	125				S

Sample ID: 1705A42-004AMSD	Client ID: APCS-19A	Units: ug/Kg-dry	Prep Date: 05/11/2017	Run No: 342975							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517279							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	3172	1440	5773	419.4	47.7	75	125	3550	11.2	20	S
Arsenic	9300	8660	5773	2938	110	75	125	9410	1.17	20	
Barium	48610	577	5773	40300	144	75	125	52620	7.93	20	S
Beryllium	8434	57.7	5773	994.4	129	75	125	8221	2.56	20	S
Cadmium	6899	289	5773		120	75	125	6763	1.99	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705A42

ANALYTICAL QC SUMMARY REPORT

BatchID: 242467

Sample ID: 1705A42-004AMSD	Client ID: APCS-19A	Units: ug/Kg-dry	Prep Date: 05/11/2017	Run No: 342975							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517279							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium	31610	5770	5773	21240	180	75	125	31060	1.75	20	S
Lead	17860	289	5773	11180	116	75	125	18800	5.13	20	
Selenium	5207	1440	5773		90.2	75	125	4988	4.30	20	
Thallium	7075	289	5773	194.3	119	75	125	6907	2.39	20	

Sample ID: 1705A42-004AMSD	Client ID: APCS-19A	Units: ug/Kg-dry	Prep Date: 05/11/2017	Run No: 342991							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 242467	Analysis Date: 05/12/2017	Seq No: 7517779							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	11170	577	5773	6869	74.5	75	125	11080	0.829	20	S
Nickel	9180	1440	5773	4414	82.6	75	125	8884	3.28	20	
Silver	466.1	289	577.3		80.7	75	125	426.4	8.89	20	
Zinc	21320	2890	5773	20070	21.7	75	125	21900	2.69	20	S

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705A42

ANALYTICAL QC SUMMARY REPORT

BatchID: 242504

Sample ID: MB-242504	Client ID:	Units: mg/Kg	Prep Date: 05/12/2017	Run No: 342977							
SampleType: MBLK	TestCode: TOTAL MERCURY SW7471B	BatchID: 242504	Analysis Date: 05/12/2017	Seq No: 7517624							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: LCS-242504	Client ID:	Units: mg/Kg	Prep Date: 05/12/2017	Run No: 342977							
SampleType: LCS	TestCode: TOTAL MERCURY SW7471B	BatchID: 242504	Analysis Date: 05/12/2017	Seq No: 7517625							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.4395 0.100 0.4000 110 80 120

Sample ID: 1705923-011CMS	Client ID:	Units: mg/Kg	Prep Date: 05/12/2017	Run No: 342977							
SampleType: MS	TestCode: TOTAL MERCURY SW7471B	BatchID: 242504	Analysis Date: 05/12/2017	Seq No: 7517627							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.6455 0.0947 0.3788 0.2132 114 70 130

Sample ID: 1705923-011CMSD	Client ID:	Units: mg/Kg	Prep Date: 05/12/2017	Run No: 342977							
SampleType: MSD	TestCode: TOTAL MERCURY SW7471B	BatchID: 242504	Analysis Date: 05/12/2017	Seq No: 7517628							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.6586 0.0951 0.3802 0.2132 117 70 130 0.6455 2.00 30

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 03, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1706R44

Analytical Environmental Services, Inc. received 7 samples on 6/29/2017 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1706244

Date: 6/28/17 Page 1 of 1

NY: <u>Georgia Power Company</u> ADDRESS: <u>241 Ralph McGill Blvd SE 310185 Atlanta GA 30308</u>		ANALYSIS REQUESTED EPAGZO AS Du EPAGZO AS Bx.Bc PCBs Totals TPH - DRO										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers				
ED BY: <u>770-296-9648</u> <u>Forrest Howard</u> SIGNATURE: <u>[Signature]</u>		PRESERVATION (See codes)										REMARKS						
SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)											REMARKS		
	DATE	TIME				T	I	H										
<u>EAPCS-16</u>	<u>6/28/17</u>	<u>1105</u>	<u>X</u>		<u>SO</u>		<u>X</u>											<u>1</u>
<u>EAPCS-17</u>	<u>6/28/17</u>	<u>1110</u>	<u>X</u>		<u>SO</u>		<u>X</u>											<u>1</u>
<u>EAPCS-18</u>	<u>6/28/17</u>	<u>1355</u>	<u>X</u>		<u>SO</u>		<u>X</u>											<u>1</u>
<u>CS-15D</u>	<u>6/28/17</u>	<u>1340</u>	<u>X</u>		<u>SO</u>	<u>X</u>		<u>X</u>										<u>1</u>
<u>SWCS-15D-E-1.5</u>	<u>6/28/17</u>	<u>1341</u>	<u>X</u>		<u>SO</u>	<u>X</u>		<u>X</u>										<u>1</u>
<u>SWCS-15D-W-1.5</u>	<u>6/28/17</u>	<u>1342</u>	<u>X</u>		<u>SO</u>	<u>X</u>		<u>X</u>										<u>1</u>
<u>PCS-01</u>	<u>6/28/17</u>	<u>1347^{BSS}</u>	<u>X</u>		<u>SO</u>					<u>X</u>								
DISPATCHED BY: <u>[Signature]</u> DATE/TIME: <u>6/28/17 1800</u>		RECEIVED BY: <u>To FedEx</u> DATE/TIME: <u>6/29/17 10:25AM</u>		PROJECT INFORMATION PROJECT NAME: <u>Plant Kraft Execution</u> PROJECT #: _____ SITE ADDRESS: <u>Plant Kraft, Port Wentworth GA</u> SEND REPORT TO: <u>in comments</u> INVOICE TO: <u>GPC Environmental's Affairs</u> (IF DIFFERENT FROM ABOVE) QUOTE #: _____ PO#: _____										RECEIPT Total # of Containers: <u>6</u> Turnaround Time Request: <input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other _____ STATE PROGRAM (if any): _____ B-mail? Y/N; Fax? Y/N DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV				
INSTRUCTIONS/COMMENTS: <u>Report to:</u> <u>Forrest Howard</u> <u>Stephen Willson</u> <u>Trent Cochran</u> <u>Lee Miller</u> <u>Nick Heuman</u>		SHIPMENT METHOD OUT / / VIA: IN / / VIA: <input type="checkbox"/> CLIENT <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER <input type="checkbox"/> GREYHOUND <input type="checkbox"/> OTHER _____																

ES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

ES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

X CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
 I/VATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: EAPCS-16
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 11:05:00 AM
Lab ID: 1706R44-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.98		mg/Kg-dry	244835	1	06/29/2017 18:07	JR
Barium	12.8	0.40		mg/Kg-dry	244835	1	06/29/2017 18:07	JR
Beryllium	0.11	0.04		mg/Kg-dry	244835	1	06/29/2017 18:07	JR
PERCENT MOISTURE D2216								
Percent Moisture	8.64	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: EAPCS-17
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 11:10:00 AM
Lab ID: 1706R44-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.75		mg/Kg-dry	244835	1	06/29/2017 18:14	JR
Barium	12.9	0.38		mg/Kg-dry	244835	1	06/29/2017 18:14	JR
Beryllium	0.09	0.04		mg/Kg-dry	244835	1	06/29/2017 18:14	JR
PERCENT MOISTURE D2216								
Percent Moisture	8.85	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: EAPCS-18
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 1:55:00 PM
Lab ID: 1706R44-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	10.7	6.11		mg/Kg-dry	244835	1	06/29/2017 18:20	JR
Barium	52.4	0.41		mg/Kg-dry	244835	1	06/29/2017 18:20	JR
Beryllium	0.44	0.04		mg/Kg-dry	244835	1	06/29/2017 18:20	JR
PERCENT MOISTURE D2216								
Percent Moisture	9.72	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: CS-15D
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 1:40:00 PM
Lab ID: 1706R44-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYCHLORINATED BIPHENYLS SW8082A					(SW3550C)			
Aroclor 1016	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1221	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1232	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1242	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1248	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1254	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1260	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Surr: Decachlorobiphenyl	82.1	43.2-138		%REC	244834	1	06/29/2017 16:58	SH
Surr: Tetrachloro-m-xylene	74.3	46-128		%REC	244834	1	06/29/2017 16:58	SH
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.46		mg/Kg-dry	244835	1	06/29/2017 18:26	JR
Barium	39.0	0.43		mg/Kg-dry	244835	1	06/29/2017 18:26	JR
PERCENT MOISTURE D2216								
Percent Moisture	11.2	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: SWCS-15D-E-1.5
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 1:41:00 PM
Lab ID: 1706R44-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYCHLORINATED BIPHENYLS SW8082A					(SW3550C)			
Aroclor 1016	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1221	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1232	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1242	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1248	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1254	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1260	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Surr: Decachlorobiphenyl	88.5	43.2-138		%REC	244834	1	06/29/2017 17:28	SH
Surr: Tetrachloro-m-xylene	99.3	46-128		%REC	244834	1	06/29/2017 17:28	SH
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.47		mg/Kg-dry	244835	1	06/29/2017 18:32	JR
Barium	42.0	0.50		mg/Kg-dry	244835	1	06/29/2017 18:32	JR
PERCENT MOISTURE D2216								
Percent Moisture	23.6	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: SWCS-15D-W-1.5
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 1:42:00 PM
Lab ID: 1706R44-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYCHLORINATED BIPHENYLS SW8082A					(SW3550C)			
Aroclor 1016	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1221	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1232	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1242	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1248	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1254	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1260	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Surr: Decachlorobiphenyl	91.6	43.2-138		%REC	244834	1	06/29/2017 17:58	SH
Surr: Tetrachloro-m-xylene	91.4	46-128		%REC	244834	1	06/29/2017 17:58	SH
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.44		mg/Kg-dry	244835	1	06/29/2017 18:38	JR
Barium	185	0.50		mg/Kg-dry	244835	1	06/29/2017 18:38	JR
PERCENT MOISTURE D2216								
Percent Moisture	23.6	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: PCS-01
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 3:55:00 PM
Lab ID: 1706R44-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	440	35		mg/Kg-dry	244800	5	06/30/2017 08:56	RF
Surr: Dioctylphthalate	81.4	54.5-121		%REC	244800	1	06/29/2017 18:16	RF
PERCENT MOISTURE D2216								
Percent Moisture	3.11	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1706R44

ANALYTICAL QC SUMMARY REPORT

BatchID: 244800

Sample ID: MB-244800	Client ID:	Units: mg/Kg	Prep Date: 06/29/2017	Run No: 346656							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 244800	Analysis Date: 06/29/2017	Seq No: 7612370							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.568 0 3.300 77.8 54.5 121

Sample ID: LCS-244800	Client ID:	Units: mg/Kg	Prep Date: 06/29/2017	Run No: 346656							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 244800	Analysis Date: 06/29/2017	Seq No: 7612371							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 32.06 6.7 33.30 96.3 54.6 120
 Surr: Dioctylphthalate 2.679 0 3.330 80.4 54.5 121

Sample ID: 1706Q02-003CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 06/29/2017	Run No: 346656							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 244800	Analysis Date: 06/29/2017	Seq No: 7612377							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 44.68 8.0 39.85 12.00 82.0 40.6 122
 Surr: Dioctylphthalate 2.733 0 3.985 68.6 54.5 121

Sample ID: 1706Q02-003CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 06/29/2017	Run No: 346656							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 244800	Analysis Date: 06/29/2017	Seq No: 7612378							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 51.59 8.0 39.85 12.00 99.3 40.6 122 44.68 14.4 29.9
 Surr: Dioctylphthalate 2.868 0 3.985 72.0 54.5 121 2.733 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1706R44

ANALYTICAL QC SUMMARY REPORT

BatchID: 244834

Sample ID: MB-244834	Client ID:	Units: ug/Kg	Prep Date: 06/29/2017	Run No: 346606							
SampleType: MBLK	TestCode: POLYCHLORINATED BIPHENYLS SW8082A	BatchID: 244834	Analysis Date: 06/29/2017	Seq No: 7611124							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	BRL	33									
Aroclor 1221	BRL	33									
Aroclor 1232	BRL	33									
Aroclor 1242	BRL	33									
Aroclor 1248	BRL	33									
Aroclor 1254	BRL	33									
Aroclor 1260	BRL	33									
Surr: Decachlorobiphenyl	14.00	0	16.67		84.0	43.2	138				
Surr: Tetrachloro-m-xylene	13.86	0	16.67		83.1	46	128				

Sample ID: LCS-244834	Client ID:	Units: ug/Kg	Prep Date: 06/29/2017	Run No: 346606							
SampleType: LCS	TestCode: POLYCHLORINATED BIPHENYLS SW8082A	BatchID: 244834	Analysis Date: 06/29/2017	Seq No: 7611125							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	150.1	33	166.7		90.1	63.7	117				
Aroclor 1260	158.0	33	166.7		94.8	70.8	124				
Surr: Decachlorobiphenyl	14.80	0	16.67		88.8	43.2	138				
Surr: Tetrachloro-m-xylene	14.20	0	16.67		85.2	46	128				

Sample ID: 1706P13-002AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 06/29/2017	Run No: 346606							
SampleType: MS	TestCode: POLYCHLORINATED BIPHENYLS SW8082A	BatchID: 244834	Analysis Date: 06/29/2017	Seq No: 7612253							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	153.1	38	188.6		81.2	52.8	125				
Aroclor 1260	165.1	38	188.6		87.5	56.4	129				
Surr: Decachlorobiphenyl	15.47	0	18.86		82.0	43.2	138				
Surr: Tetrachloro-m-xylene	14.88	0	18.86		78.9	46	128				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1706R44

ANALYTICAL QC SUMMARY REPORT

BatchID: 244834

Sample ID: 1706P13-002AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 06/29/2017	Run No: 346606							
SampleType: MSD	TestCode: POLYCHLORINATED BIPHENYLS SW8082A	BatchID: 244834	Analysis Date: 06/29/2017	Seq No: 7612254							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	160.4	38	188.6		85.1	52.8	125	153.1	4.66	23.8	
Aroclor 1260	172.6	38	188.6		91.5	56.4	129	165.1	4.44	19.2	
Surr: Decachlorobiphenyl	16.21	0	18.86		86.0	43.2	138	15.47	0	0	
Surr: Tetrachloro-m-xylene	15.71	0	18.86		83.3	46	128	14.88	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1706R44

ANALYTICAL QC SUMMARY REPORT

BatchID: 244835

Sample ID: MB-244835	Client ID:	Units: ug/Kg	Prep Date: 06/29/2017	Run No: 346620							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 244835	Analysis Date: 06/29/2017	Seq No: 7611329							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-244835	Client ID:	Units: ug/Kg	Prep Date: 06/29/2017	Run No: 346620							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 244835	Analysis Date: 06/29/2017	Seq No: 7611330							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4575	1500	5000		91.5	80	120				
Barium	4872	500	5000		97.4	80	120				
Beryllium	4839	50.0	5000		96.8	80	120				

Sample ID: 1706R43-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 06/29/2017	Run No: 346620							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 244835	Analysis Date: 06/29/2017	Seq No: 7611334							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	14.68	6.22	4.146	13.95	17.6	75	125				S
Barium	128.7	0.42	4.146	148.7	-483	75	125				S
Beryllium	5.237	0.04	4.146	0.8863	105	75	125				

Sample ID: 1706R43-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 06/29/2017	Run No: 346620							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 244835	Analysis Date: 06/29/2017	Seq No: 7611335							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	19.14	6.21	4.143	13.95	125	75	125	14.68	26.4	20	SR
Barium	152.0	0.41	4.143	148.7	81.2	75	125	128.7	16.7	20	
Beryllium	5.576	0.04	4.143	0.8863	113	75	125	5.237	6.29	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 06, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1803147

Analytical Environmental Services, Inc. received 2 samples on 3/2/2018 8:14:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 6-Mar-18

Client: Georgia Power Company	Client Sample ID: FFCS-2
Project Name: Plant Kraft Excavation	Collection Date: 2/28/2018 1:22:00 PM
Lab ID: 1803147-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.45		mg/Kg-dry	256757	20	03/05/2018 15:23	DP
Barium	8.14	0.91		mg/Kg-dry	256757	20	03/05/2018 15:23	DP
PERCENT MOISTURE D2216								
Percent Moisture	19.7	0		wt%	R364473	1	03/05/2018 14:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Co.

AES Work Order Number: 1803147

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.1 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). EDM 3/2/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). EDM 3/2/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). EDM 3/2/18

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1803147

ANALYTICAL QC SUMMARY REPORT

BatchID: 256757

Sample ID: MB-256757	Client ID:	Units: ug/Kg	Prep Date: 03/05/2018	Run No: 364506							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 256757	Analysis Date: 03/05/2018	Seq No: 8057420							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-256757	Client ID:	Units: ug/Kg	Prep Date: 03/05/2018	Run No: 364506							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 256757	Analysis Date: 03/05/2018	Seq No: 8057421							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5357 5300 5000 107 80 120
 Barium 5136 500 5000 103 80 120

Sample ID: 1803147-002AMS	Client ID: FFCS-2	Units: mg/Kg-dry	Prep Date: 03/05/2018	Run No: 364506							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 256757	Analysis Date: 03/05/2018	Seq No: 8057423							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.171 4.54 4.544 114 75 125
 Barium 18.02 9.09 4.544 8.140 218 75 125 S

Sample ID: 1803147-002AMSD	Client ID: FFCS-2	Units: mg/Kg-dry	Prep Date: 03/05/2018	Run No: 364506							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 256757	Analysis Date: 03/05/2018	Seq No: 8057424							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.127 4.54 4.543 113 75 125 5.171 0.858 20
 Barium 19.76 9.09 4.543 8.140 256 75 125 18.02 9.21 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 22, 2017

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1711K58

Analytical Environmental Services, Inc. received 7 samples on 11/21/2017 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 22-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-35
Project Name: Plant Kraft Excavation	Collection Date: 11/20/2017 8:30:00 AM
Lab ID: 1711K58-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	251899	20	11/21/2017 17:43	TA
Barium	13.4	10.3		mg/Kg-dry	251899	20	11/21/2017 17:43	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.04	0		wt%	R357472	1	11/22/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-40
Project Name: Plant Kraft Excavation	Collection Date: 11/20/2017 10:50:00 AM
Lab ID: 1711K58-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.24		mg/Kg-dry	251899	20	11/21/2017 17:53	TA
Barium	13.9	8.83		mg/Kg-dry	251899	20	11/21/2017 17:53	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.50	0		wt%	R357472	1	11/22/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1711K58

ANALYTICAL QC SUMMARY REPORT

BatchID: 251899

Sample ID: MB-251899	Client ID:	Units: ug/Kg	Prep Date: 11/21/2017	Run No: 357505							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 251899	Analysis Date: 11/21/2017	Seq No: 7878673							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-251899	Client ID:	Units: ug/Kg	Prep Date: 11/21/2017	Run No: 357505							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251899	Analysis Date: 11/21/2017	Seq No: 7878675							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5926 5500 5000 125.9 116 80 120
 Barium 4679 500 5000 93.6 80 120

Sample ID: 1711K58-001AMS	Client ID: RDCS-34	Units: mg/Kg-dry	Prep Date: 11/21/2017	Run No: 357505							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251899	Analysis Date: 11/21/2017	Seq No: 7878680							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.32 4.815 111 75 125
 Barium 17.56 9.63 4.815 13.42 86.1 75 125

Sample ID: 1711K58-001AMSD	Client ID: RDCS-34	Units: mg/Kg-dry	Prep Date: 11/21/2017	Run No: 357505							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 251899	Analysis Date: 11/21/2017	Seq No: 7878682							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.33 4.824 106 75 125 5.320 0 20
 Barium 16.80 9.65 4.824 13.42 70.3 75 125 17.56 4.41 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Analytical Environmental Services, Inc

Date: 29-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-1 (RS)
Project Name: Plant Kraft Excavation	Collection Date: 11/27/2017 10:06:00 AM
Lab ID: 1711N97-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.35		mg/Kg-dry	252137	20	11/29/2017 13:39	TA
Barium	5.59	1.02		mg/Kg-dry	252137	20	11/29/2017 13:39	TA
PERCENT MOISTURE D2216								
Percent Moisture	3.61	0		wt%	R357826	1	11/29/2017 13:00	OO

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 21, 2017

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1711H94

Analytical Environmental Services, Inc. received 36 samples on 11/17/2017 9:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-2
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 9:54:00 AM
Lab ID: 1711H94-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.32		mg/Kg-dry	251695	20	11/20/2017 14:36	TA
Barium	3.16	0.67		mg/Kg-dry	251695	20	11/20/2017 14:36	TA
PERCENT MOISTURE D2216								
Percent Moisture	2.51	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-3SW
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 10:02:00 AM
Lab ID: 1711H94-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.20		mg/Kg-dry	251695	20	11/20/2017 14:38	TA
Barium	19.3	8.58		mg/Kg-dry	251695	20	11/20/2017 14:38	TA
PERCENT MOISTURE D2216								
Percent Moisture	2.89	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-5
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 11:16:00 AM
Lab ID: 1711H94-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	251695	20	11/20/2017 14:42	TA
Barium	2.39	0.82		mg/Kg-dry	251695	20	11/20/2017 14:42	TA
PERCENT MOISTURE D2216								
Percent Moisture	1.16	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-6
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 11:34:00 AM
Lab ID: 1711H94-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	251695	20	11/20/2017 14:44	TA
Barium	11.1	10.2		mg/Kg-dry	251695	20	11/20/2017 14:44	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.80	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-7SW
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 12:44:00 PM
Lab ID: 1711H94-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	18.6	7.12		mg/Kg-dry	251695	20	11/20/2017 14:46	TA
Barium	89.1	9.13		mg/Kg-dry	251695	20	11/20/2017 14:46	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.54	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-8
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 12:54:00 PM
Lab ID: 1711H94-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.08		mg/Kg-dry	251695	20	11/20/2017 14:48	TA
Barium	2.27	0.59		mg/Kg-dry	251695	20	11/20/2017 14:48	TA
PERCENT MOISTURE D2216								
Percent Moisture	1.59	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-12
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 3:52:00 PM
Lab ID: 1711H94-015	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	15.0	7.19		mg/Kg-dry	251695	20	11/20/2017 15:02	TA
Barium	80.2	8.56		mg/Kg-dry	251695	20	11/20/2017 15:02	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.80	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-14
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 4:00:00 PM
Lab ID: 1711H94-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.46		mg/Kg-dry	251695	20	11/20/2017 15:07	TA
Barium	14.7	10.1		mg/Kg-dry	251695	20	11/20/2017 15:07	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.62	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-15
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 12:22:00 PM
Lab ID: 1711H94-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.45		mg/Kg-dry	251695	20	11/20/2017 15:08	TA
Barium	14.5	7.45		mg/Kg-dry	251695	20	11/20/2017 15:08	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.36	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-16SW
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 7:54:00 AM
Lab ID: 1711H94-019	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	251695	20	11/20/2017 15:11	TA
Barium	14.1	7.34		mg/Kg-dry	251695	20	11/20/2017 15:11	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.55	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-17
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 8:42:00 AM
Lab ID: 1711H94-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	10.5	7.39		mg/Kg-dry	251695	20	11/20/2017 15:13	TA
Barium	41.3	9.99		mg/Kg-dry	251695	20	11/20/2017 15:13	TA
PERCENT MOISTURE D2216								
Percent Moisture	15.9	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-18
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 11:32:00 AM
Lab ID: 1711H94-021	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.30		mg/Kg-dry	251696	20	11/20/2017 15:19	TA
Barium	11.0	8.49		mg/Kg-dry	251696	20	11/20/2017 15:19	TA
PERCENT MOISTURE D2216								
Percent Moisture	12.9	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-19
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 1:06:00 PM
Lab ID: 1711H94-022	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.25		mg/Kg-dry	251696	20	11/20/2017 15:35	TA
Barium	2.99	0.77		mg/Kg-dry	251696	20	11/20/2017 15:35	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.36	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-20
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 1:12:00 PM
Lab ID: 1711H94-023	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.32		mg/Kg-dry	251696	20	11/20/2017 15:37	TA
Barium	1.01	0.73		mg/Kg-dry	251696	20	11/20/2017 15:37	TA
PERCENT MOISTURE D2216								
Percent Moisture	2.55	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-21
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 2:04:00 PM
Lab ID: 1711H94-024	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.31		mg/Kg-dry	251696	20	11/20/2017 15:39	TA
Barium	3.16	0.78		mg/Kg-dry	251696	20	11/20/2017 15:39	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.70	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-22
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 2:16:00 PM
Lab ID: 1711H94-025	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.26		mg/Kg-dry	251696	20	11/20/2017 15:41	TA
Barium	4.30	0.77		mg/Kg-dry	251696	20	11/20/2017 15:41	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.22	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-24
Project Name: Plant Kraft Excavation	Collection Date: 11/15/2017 8:02:00 AM
Lab ID: 1711H94-027	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.42		mg/Kg-dry	251696	20	11/20/2017 15:45	TA
Barium	1.19	0.76		mg/Kg-dry	251696	20	11/20/2017 15:45	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.28	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-25
Project Name: Plant Kraft Excavation	Collection Date: 11/15/2017 8:48:00 AM
Lab ID: 1711H94-028	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	251696	20	11/20/2017 15:47	TA
Barium	2.40	0.81		mg/Kg-dry	251696	20	11/20/2017 15:47	TA
PERCENT MOISTURE D2216								
Percent Moisture	11.9	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-26
Project Name: Plant Kraft Excavation	Collection Date: 11/15/2017 10:02:00 AM
Lab ID: 1711H94-029	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.30		mg/Kg-dry	251696	20	11/20/2017 15:55	TA
Barium	1.07	0.73		mg/Kg-dry	251696	20	11/20/2017 15:55	TA
PERCENT MOISTURE D2216								
Percent Moisture	2.27	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-29
Project Name: Plant Kraft Excavation	Collection Date: 11/16/2017 8:42:00 AM
Lab ID: 1711H94-032	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.42		mg/Kg-dry	251696	20	11/20/2017 16:01	TA
Barium	1.38	0.76		mg/Kg-dry	251696	20	11/20/2017 16:01	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.26	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1711H94

ANALYTICAL QC SUMMARY REPORT

BatchID: 251695

Sample ID: MB-251695	Client ID:	Units: ug/Kg	Prep Date: 11/17/2017	Run No: 357318							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 251695	Analysis Date: 11/20/2017	Seq No: 7874212							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-251695	Client ID:	Units: ug/Kg	Prep Date: 11/17/2017	Run No: 357318							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251695	Analysis Date: 11/20/2017	Seq No: 7874214							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5472 2000 5000 109 80 120
 Barium 5174 1000 5000 103 80 120

Sample ID: 1711H94-001AMS	Client ID: LFCS-90	Units: mg/Kg-dry	Prep Date: 11/17/2017	Run No: 357318							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251695	Analysis Date: 11/20/2017	Seq No: 7874216							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.31 4.687 107 75 125
 Barium 18.04 9.37 4.687 12.83 111 75 125

Sample ID: 1711H94-001AMSD	Client ID: LFCS-90	Units: mg/Kg-dry	Prep Date: 11/17/2017	Run No: 357318							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 251695	Analysis Date: 11/20/2017	Seq No: 7874217							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.32 4.690 106 75 125 5.033 0 20
 Barium 18.82 9.38 4.690 12.83 128 75 125 18.04 4.25 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1711H94

ANALYTICAL QC SUMMARY REPORT

BatchID: 251696

Sample ID: MB- 251696	Client ID:	Units: ug/Kg	Prep Date: 11/17/2017	Run No: 357319							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 251696	Analysis Date: 11/20/2017	Seq No: 7874258							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS- 251696	Client ID:	Units: ug/Kg	Prep Date: 11/17/2017	Run No: 357319							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251696	Analysis Date: 11/20/2017	Seq No: 7874470							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5735 5500 5000 115 80 120
 Barium 4830 500 5000 96.6 80 120

Sample ID: 1711H94-021AMS	Client ID: RDCS-18	Units: mg/Kg-dry	Prep Date: 11/17/2017	Run No: 357319							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251696	Analysis Date: 11/20/2017	Seq No: 7874261							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.29 4.239 0.8764 22.0 75 125 S
 Barium 13.77 8.48 4.239 10.98 65.6 75 125 S

Sample ID: 1711H94-021AMSD	Client ID: RDCS-18	Units: mg/Kg-dry	Prep Date: 11/17/2017	Run No: 357319							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 251696	Analysis Date: 11/20/2017	Seq No: 7874264							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 6.78 4.240 0.8764 12.7 75 125 1.811 0 20 S
 Barium 9.808 8.48 4.240 10.98 -27.7 75 125 13.77 33.6 20 SR

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 26, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1709L08

Analytical Environmental Services, Inc. received 3 samples on 9/23/2017 9:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions for Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 26-Sep-17

Client: Georgia Power Company	Client Sample ID: LFCS-29
Project Name: Plant Kraft Excavation	Collection Date: 9/20/2017 10:30:00 AM
Lab ID: 1709L08-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	11.4	7.25		mg/Kg-dry	248827	10	09/26/2017 15:19	JR
Barium	79.5	4.83		mg/Kg-dry	248827	10	09/26/2017 15:19	JR
PERCENT MOISTURE D2216								
Percent Moisture	15.0	0		wt%	R352837	1	09/25/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 26-Sep-17

Client: Georgia Power Company	Client Sample ID: LFCS-30
Project Name: Plant Kraft Excavation	Collection Date: 9/20/2017 10:35:00 AM
Lab ID: 1709L08-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.79		mg/Kg-dry	248827	10	09/26/2017 15:26	JR
Barium	67.0	5.86		mg/Kg-dry	248827	10	09/26/2017 15:26	JR
PERCENT MOISTURE D2216								
Percent Moisture	18.1	0		wt%	R352837	1	09/25/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 26-Sep-17

Client: Georgia Power Company	Client Sample ID: LFCS-31
Project Name: Plant Kraft Excavation	Collection Date: 9/20/2017 1:00:00 PM
Lab ID: 1709L08-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.62		mg/Kg-dry	248827	10	09/26/2017 14:48	JR
Barium	4.11	0.51		mg/Kg-dry	248827	10	09/26/2017 14:48	JR
PERCENT MOISTURE D2216								
Percent Moisture	6.75	0		wt%	R352837	1	09/25/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1709L08

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AJ 9/23/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJ 9/23/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AJ 9/23/17



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1709L08

ANALYTICAL QC SUMMARY REPORT

BatchID: 248827

Sample ID: MB-248827	Client ID:	Units: ug/Kg	Prep Date: 09/26/2017	Run No: 352950							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 248827	Analysis Date: 09/26/2017	Seq No: 7763916							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-248827	Client ID:	Units: ug/Kg	Prep Date: 09/26/2017	Run No: 352950							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 248827	Analysis Date: 09/26/2017	Seq No: 7763919							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5373 1500 5000 57.57 106 80 120
 Barium 5174 500 5000 103 80 120

Sample ID: 1709L08-003AMS	Client ID: LFCS-31	Units: ug/Kg-dry	Prep Date: 09/26/2017	Run No: 352950							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 248827	Analysis Date: 09/26/2017	Seq No: 7763925							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5865 5580 5069 116 75 125
 Barium 8842 5070 5069 4114 93.3 75 125

Sample ID: 1709L08-003AMSD	Client ID: LFCS-31	Units: ug/Kg-dry	Prep Date: 09/26/2017	Run No: 352950							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 248827	Analysis Date: 09/26/2017	Seq No: 7763927							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5971 5590 5081 118 75 125 5865 1.80 20
 Barium 10860 5080 5081 4114 133 75 125 8842 20.5 20 SR

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 23, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1710K21

Analytical Environmental Services, Inc. received 8 samples on 10/20/2017 10:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
 3080 Presidential Drive Atlanta, GA 30340-3704
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1710K21

Date: 10/19/17 Page 1 of 1

COMPANY: Georgia Power Company		ADDRESS: 241 Ralph McGill Blvd SE B10185 Atlanta GA 30308 30308			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers		
PHONE: 770-296-9648		EMAIL: Forrest.Howard@Resoluteenv.com			PRESERVATION (see codes)								
SAMPLED BY: Forrest Howard		SIGNATURE:											
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	REMARKS						
		DATE	TIME										
1	LFCS-32	10/18/17	1350	X		SO	X					1	
2	LFCS-33	10/18/17	1357	X		SO	X					1	
3	LFCS-34	10/19/17	0910 ^{FT}	X		SO	X					1	
4	LFCS-35	10/19/17	0910	X		SO	X					1	
5	LFCS-36	10/19/17	0920	X		SO	X					1	
6	LFCS-37	10/19/17	0925	X		SO	X					1	
7	LFCS-38	10/19/17	0945	X		SO	X					1	
8	LFCS-39	10/19/17	1120	X		SO	X					1	
9													
10													
11													
12													
13													
14													
RELINQUISHED BY:		DATE/TIME: 10/19/17 1700	RECEIVED BY: 1. To FedEx		DATE/TIME: 10/20/17 10:10		PROJECT INFORMATION					RECEIPT	
2.			2. Puro Masandi				PROJECT NAME: Plantcraft Excavator					Total # of Containers	
3.			3.				PROJECT #: 155					Turnaround Time (TAT) Request	
SPECIAL INSTRUCTIONS/COMMENTS: Report to: Forrest Howard, Trent Coleman, Stephen Wilson, Leannillet		SHIPMENT METHOD		INVOICE TO: (IF DIFFERENT FROM ABOVE) GPL Environmental Affairs		SITE ADDRESS: 155 crossgate Rd Port Westwouth GA					<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other		
		OUT: / / VIA:		QUOTE #:		SEND REPORT TO: in comments					STATE PROGRAM (if any):		
		IN: / / VIA:		PO#:		client: FedEx UPS US mail courier Greyhound					E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>		
		other: _____									DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>		

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Analytical Environmental Services, Inc

Date: 23-Oct-17

Client: Georgia Power Company	Client Sample ID: LFCS-32
Project Name: Plant Kraft Excavation	Collection Date: 10/18/2017 1:50:00 PM
Lab ID: 1710K21-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.21		mg/Kg-dry	250213	10	10/23/2017 16:02	JR
Barium	36.5	4.14		mg/Kg-dry	250213	10	10/21/2017 01:10	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.5	0		wt%	R355007	1	10/23/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Oct-17

Client: Georgia Power Company	Client Sample ID: LFCS-34
Project Name: Plant Kraft Excavation	Collection Date: 10/19/2017 9:00:00 AM
Lab ID: 1710K21-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.06		mg/Kg-dry	250213	10	10/23/2017 16:14	JR
Barium	46.7	4.04		mg/Kg-dry	250213	10	10/21/2017 01:22	JR
PERCENT MOISTURE D2216								
Percent Moisture	15.8	0		wt%	R355007	1	10/23/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Oct-17

Client: Georgia Power Company	Client Sample ID: LFCS-37
Project Name: Plant Kraft Excavation	Collection Date: 10/19/2017 9:25:00 AM
Lab ID: 1710K21-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.78		mg/Kg-dry	250213	10	10/23/2017 16:46	JR
Barium	24.0	3.86		mg/Kg-dry	250213	10	10/21/2017 01:41	JR
PERCENT MOISTURE D2216								
Percent Moisture	12.2	0		wt%	R355007	1	10/23/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Oct-17

Client: Georgia Power Company	Client Sample ID: LFCS-38
Project Name: Plant Kraft Excavation	Collection Date: 10/19/2017 9:45:00 AM
Lab ID: 1710K21-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.65		mg/Kg-dry	250213	10	10/23/2017 16:52	JR
Barium	33.6	3.77		mg/Kg-dry	250213	10	10/21/2017 01:48	JR
PERCENT MOISTURE D2216								
Percent Moisture	15.6	0		wt%	R355007	1	10/23/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Oct-17

Client: Georgia Power Company	Client Sample ID: LFCS-39
Project Name: Plant Kraft Excavation	Collection Date: 10/19/2017 11:20:00 AM
Lab ID: 1710K21-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.17		mg/Kg-dry	250213	10	10/23/2017 16:58	JR
Barium	73.2	4.11		mg/Kg-dry	250213	10	10/21/2017 02:13	JR
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R355007	1	10/23/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1710K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 250213

Sample ID: MB-250213	Client ID:	Units: ug/Kg	Prep Date: 10/20/2017	Run No: 354988							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 250213	Analysis Date: 10/21/2017	Seq No: 7813894							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-250213	Client ID:	Units: ug/Kg	Prep Date: 10/20/2017	Run No: 354988							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 250213	Analysis Date: 10/21/2017	Seq No: 7813895							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4771 4500 5000 146.8 92.5 80 120
 Barium 4961 500 5000 99.2 80 120

Sample ID: 1710H90-001BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 10/20/2017	Run No: 354988							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 250213	Analysis Date: 10/21/2017	Seq No: 7813897							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4.250 4.00 3.843 0.8826 87.6 75 125
 Barium 16.43 3.84 3.843 10.97 142 75 125 S

Sample ID: 1710H90-001BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 10/20/2017	Run No: 354988							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 250213	Analysis Date: 10/23/2017	Seq No: 7815285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4.473 3.99 3.839 0.8826 93.5 75 125 4.250 5.11 20
 Barium 16.31 3.84 3.839 10.97 139 75 125 16.43 0.764 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 30, 2017

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1710Q68

Analytical Environmental Services, Inc. received 9 samples on 10/27/2017 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 30-Oct-17

Client: Georgia Power Company	Client Sample ID: LFCS-42
Project Name: Plant Kraft Excavation	Collection Date: 10/25/2017 10:45:00 AM
Lab ID: 1710Q68-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.07		mg/Kg-dry	250587	5	10/29/2017 21:53	TA
Barium	6.36	2.30		mg/Kg-dry	250587	5	10/29/2017 21:53	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.88	0		wt%	R355546	1	10/30/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-17

Client: Georgia Power Company	Client Sample ID: LFCS-44
Project Name: Plant Kraft Excavation	Collection Date: 10/25/2017 1:50:00 PM
Lab ID: 1710Q68-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.63		mg/Kg-dry	250587	5	10/29/2017 20:56	TA
Barium	6.82	2.21		mg/Kg-dry	250587	5	10/29/2017 20:56	TA
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R355546	1	10/30/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-17

Client: Georgia Power Company	Client Sample ID: LFCS-45
Project Name: Plant Kraft Excavation	Collection Date: 10/25/2017 1:55:00 PM
Lab ID: 1710Q68-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.84		mg/Kg-dry	250587	25	10/30/2017 17:26	TA
Barium	28.0	9.73		mg/Kg-dry	250587	25	10/30/2017 17:26	TA
PERCENT MOISTURE D2216								
Percent Moisture	15.5	0		wt%	R355546	1	10/30/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-17

Client: Georgia Power Company	Client Sample ID: LFCS-46
Project Name: Plant Kraft Excavation	Collection Date: 10/26/2017 10:30:00 AM
Lab ID: 1710Q68-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	8.05	5.42		mg/Kg-dry	250587	25	10/30/2017 17:32	TA
Barium	57.8	9.03		mg/Kg-dry	250587	25	10/30/2017 17:32	TA
PERCENT MOISTURE D2216								
Percent Moisture	26.1	0		wt%	R355546	1	10/30/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Oct-17

Client: Georgia Power Company	Client Sample ID: LFCS-47
Project Name: Plant Kraft Excavation	Collection Date: 10/26/2017 10:35:00 AM
Lab ID: 1710Q68-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.05		mg/Kg-dry	250587	25	10/30/2017 17:39	TA
Barium	29.1	13.4		mg/Kg-dry	250587	25	10/30/2017 17:39	TA
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R355546	1	10/30/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1710Q68

ANALYTICAL QC SUMMARY REPORT

BatchID: 250587

Sample ID: MB-250587	Client ID:	Units: ug/Kg	Prep Date: 10/27/2017	Run No: 355523							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 250587	Analysis Date: 10/29/2017	Seq No: 7827846							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-250587	Client ID:	Units: ug/Kg	Prep Date: 10/27/2017	Run No: 355523							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 250587	Analysis Date: 10/29/2017	Seq No: 7827847							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5008 5000 5000 900.8 82.1 80 120
 Barium 5108 500 5000 102 80 120

Sample ID: 1710Q68-005AMS	Client ID: LFCS-44	Units: mg/Kg-dry	Prep Date: 10/27/2017	Run No: 355523							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 250587	Analysis Date: 10/29/2017	Seq No: 7827850							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 2.964 1.99 4.425 0.7539 49.9 75 125 S
 Barium 9.941 2.21 4.425 6.816 70.6 75 125 S

Sample ID: 1710Q68-005AMSD	Client ID: LFCS-44	Units: mg/Kg-dry	Prep Date: 10/27/2017	Run No: 355523							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 250587	Analysis Date: 10/29/2017	Seq No: 7827852							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 2.952 1.98 4.400 0.7539 50.0 75 125 2.964 0.389 20 S
 Barium 8.522 2.20 4.400 6.816 38.8 75 125 9.941 15.4 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 21, 2017

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1711H94

Analytical Environmental Services, Inc. received 36 samples on 11/17/2017 9:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-1SW
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 9:46:00 AM
Lab ID: 1711H94-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	65.1	7.43		mg/Kg-dry	251695	20	11/20/2017 14:28	TA
Barium	29.7	8.26		mg/Kg-dry	251695	20	11/20/2017 14:28	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.64	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-2
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 9:54:00 AM
Lab ID: 1711H94-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.32		mg/Kg-dry	251695	20	11/20/2017 14:36	TA
Barium	3.16	0.67		mg/Kg-dry	251695	20	11/20/2017 14:36	TA
PERCENT MOISTURE D2216								
Percent Moisture	2.51	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-3SW
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 10:02:00 AM
Lab ID: 1711H94-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.20		mg/Kg-dry	251695	20	11/20/2017 14:38	TA
Barium	19.3	8.58		mg/Kg-dry	251695	20	11/20/2017 14:38	TA
PERCENT MOISTURE D2216								
Percent Moisture	2.89	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-5
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 11:16:00 AM
Lab ID: 1711H94-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	251695	20	11/20/2017 14:42	TA
Barium	2.39	0.82		mg/Kg-dry	251695	20	11/20/2017 14:42	TA
PERCENT MOISTURE D2216								
Percent Moisture	1.16	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-6
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 11:34:00 AM
Lab ID: 1711H94-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	251695	20	11/20/2017 14:44	TA
Barium	11.1	10.2		mg/Kg-dry	251695	20	11/20/2017 14:44	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.80	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-7SW
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 12:44:00 PM
Lab ID: 1711H94-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	18.6	7.12		mg/Kg-dry	251695	20	11/20/2017 14:46	TA
Barium	89.1	9.13		mg/Kg-dry	251695	20	11/20/2017 14:46	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.54	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-10
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 2:34:00 PM
Lab ID: 1711H94-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.15		mg/Kg-dry	251695	20	11/20/2017 14:52	TA
Barium	19.9	8.51		mg/Kg-dry	251695	20	11/20/2017 14:52	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.42	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-13
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 3:56:00 PM
Lab ID: 1711H94-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.30		mg/Kg-dry	251695	20	11/20/2017 15:05	TA
Barium	5.28	0.94		mg/Kg-dry	251695	20	11/20/2017 15:05	TA
PERCENT MOISTURE D2216								
Percent Moisture	2.54	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-15
Project Name: Plant Kraft Excavation	Collection Date: 11/13/2017 12:22:00 PM
Lab ID: 1711H94-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.45		mg/Kg-dry	251695	20	11/20/2017 15:08	TA
Barium	14.5	7.45		mg/Kg-dry	251695	20	11/20/2017 15:08	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.36	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-17
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 8:42:00 AM
Lab ID: 1711H94-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	10.5	7.39		mg/Kg-dry	251695	20	11/20/2017 15:13	TA
Barium	41.3	9.99		mg/Kg-dry	251695	20	11/20/2017 15:13	TA
PERCENT MOISTURE D2216								
Percent Moisture	15.9	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-18
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 11:32:00 AM
Lab ID: 1711H94-021	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.30		mg/Kg-dry	251696	20	11/20/2017 15:19	TA
Barium	11.0	8.49		mg/Kg-dry	251696	20	11/20/2017 15:19	TA
PERCENT MOISTURE D2216								
Percent Moisture	12.9	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-19
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 1:06:00 PM
Lab ID: 1711H94-022	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.25		mg/Kg-dry	251696	20	11/20/2017 15:35	TA
Barium	2.99	0.77		mg/Kg-dry	251696	20	11/20/2017 15:35	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.36	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-20
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 1:12:00 PM
Lab ID: 1711H94-023	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.32		mg/Kg-dry	251696	20	11/20/2017 15:37	TA
Barium	1.01	0.73		mg/Kg-dry	251696	20	11/20/2017 15:37	TA
PERCENT MOISTURE D2216								
Percent Moisture	2.55	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-21
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 2:04:00 PM
Lab ID: 1711H94-024	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.31		mg/Kg-dry	251696	20	11/20/2017 15:39	TA
Barium	3.16	0.78		mg/Kg-dry	251696	20	11/20/2017 15:39	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.70	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-22
Project Name: Plant Kraft Excavation	Collection Date: 11/14/2017 2:16:00 PM
Lab ID: 1711H94-025	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.26		mg/Kg-dry	251696	20	11/20/2017 15:41	TA
Barium	4.30	0.77		mg/Kg-dry	251696	20	11/20/2017 15:41	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.22	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-23
Project Name: Plant Kraft Excavation	Collection Date: 11/15/2017 7:52:00 AM
Lab ID: 1711H94-026	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.26		mg/Kg-dry	251696	20	11/20/2017 15:43	TA
Barium	1.46	0.79		mg/Kg-dry	251696	20	11/20/2017 15:43	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.87	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-26
Project Name: Plant Kraft Excavation	Collection Date: 11/15/2017 10:02:00 AM
Lab ID: 1711H94-029	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.30		mg/Kg-dry	251696	20	11/20/2017 15:55	TA
Barium	1.07	0.73		mg/Kg-dry	251696	20	11/20/2017 15:55	TA
PERCENT MOISTURE D2216								
Percent Moisture	2.27	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-27
Project Name: Plant Kraft Excavation	Collection Date: 11/15/2017 1:00:00 PM
Lab ID: 1711H94-030	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.32		mg/Kg-dry	251696	20	11/20/2017 15:57	TA
Barium	1.58	0.78		mg/Kg-dry	251696	20	11/20/2017 15:57	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.16	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-29
Project Name: Plant Kraft Excavation	Collection Date: 11/16/2017 8:42:00 AM
Lab ID: 1711H94-032	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.42		mg/Kg-dry	251696	20	11/20/2017 16:01	TA
Barium	1.38	0.76		mg/Kg-dry	251696	20	11/20/2017 16:01	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.26	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-30
Project Name: Plant Kraft Excavation	Collection Date: 11/16/2017 10:48:00 AM
Lab ID: 1711H94-033	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.15		mg/Kg-dry	251696	20	11/20/2017 16:03	TA
Barium	1.40	0.76		mg/Kg-dry	251696	20	11/20/2017 16:03	TA
PERCENT MOISTURE D2216								
Percent Moisture	5.24	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-31
Project Name: Plant Kraft Excavation	Collection Date: 11/16/2017 12:56:00 PM
Lab ID: 1711H94-034	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.16		mg/Kg-dry	251696	20	11/20/2017 16:05	TA
Barium	2.43	0.76		mg/Kg-dry	251696	20	11/20/2017 16:05	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.59	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-33
Project Name: Plant Kraft Excavation	Collection Date: 11/16/2017 2:36:00 PM
Lab ID: 1711H94-036	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	251696	20	11/20/2017 16:09	TA
Barium	1.13	0.76		mg/Kg-dry	251696	20	11/20/2017 16:09	TA
PERCENT MOISTURE D2216								
Percent Moisture	5.95	0		wt%	R357256	1	11/20/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1711H94

ANALYTICAL QC SUMMARY REPORT

BatchID: 251695

Sample ID: MB-251695	Client ID:	Units: ug/Kg	Prep Date: 11/17/2017	Run No: 357318							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 251695	Analysis Date: 11/20/2017	Seq No: 7874212							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-251695	Client ID:	Units: ug/Kg	Prep Date: 11/17/2017	Run No: 357318							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251695	Analysis Date: 11/20/2017	Seq No: 7874214							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5472 2000 5000 109 80 120
 Barium 5174 1000 5000 103 80 120

Sample ID: 1711H94-001AMS	Client ID: LFCS-90	Units: mg/Kg-dry	Prep Date: 11/17/2017	Run No: 357318							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251695	Analysis Date: 11/20/2017	Seq No: 7874216							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.31 4.687 107 75 125
 Barium 18.04 9.37 4.687 12.83 111 75 125

Sample ID: 1711H94-001AMSD	Client ID: LFCS-90	Units: mg/Kg-dry	Prep Date: 11/17/2017	Run No: 357318							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 251695	Analysis Date: 11/20/2017	Seq No: 7874217							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.32 4.690 106 75 125 5.033 0 20
 Barium 18.82 9.38 4.690 12.83 128 75 125 18.04 4.25 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1711H94

ANALYTICAL QC SUMMARY REPORT

BatchID: 251696

Sample ID: MB- 251696	Client ID:	Units: ug/Kg	Prep Date: 11/17/2017	Run No: 357319							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 251696	Analysis Date: 11/20/2017	Seq No: 7874258							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS- 251696	Client ID:	Units: ug/Kg	Prep Date: 11/17/2017	Run No: 357319							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251696	Analysis Date: 11/20/2017	Seq No: 7874470							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5735 5500 5000 115 80 120
 Barium 4830 500 5000 96.6 80 120

Sample ID: 1711H94-021AMS	Client ID: RDCS-18	Units: mg/Kg-dry	Prep Date: 11/17/2017	Run No: 357319							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251696	Analysis Date: 11/20/2017	Seq No: 7874261							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.29 4.239 0.8764 22.0 75 125 S
 Barium 13.77 8.48 4.239 10.98 65.6 75 125 S

Sample ID: 1711H94-021AMSD	Client ID: RDCS-18	Units: mg/Kg-dry	Prep Date: 11/17/2017	Run No: 357319							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 251696	Analysis Date: 11/20/2017	Seq No: 7874264							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 6.78 4.240 0.8764 12.7 75 125 1.811 0 20 S
 Barium 9.808 8.48 4.240 10.98 -27.7 75 125 13.77 33.6 20 SR

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 22, 2017

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1711K58

Analytical Environmental Services, Inc. received 7 samples on 11/21/2017 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 22-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-35
Project Name: Plant Kraft Excavation	Collection Date: 11/20/2017 8:30:00 AM
Lab ID: 1711K58-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	251899	20	11/21/2017 17:43	TA
Barium	13.4	10.3		mg/Kg-dry	251899	20	11/21/2017 17:43	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.04	0		wt%	R357472	1	11/22/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-36
Project Name: Plant Kraft Excavation	Collection Date: 11/20/2017 8:50:00 AM
Lab ID: 1711K58-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.39		mg/Kg-dry	251899	20	11/21/2017 17:45	TA
Barium	26.6	8.40		mg/Kg-dry	251899	20	11/21/2017 17:45	TA
PERCENT MOISTURE D2216								
Percent Moisture	11.0	0		wt%	R357472	1	11/22/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-37
Project Name: Plant Kraft Excavation	Collection Date: 11/20/2017 9:00:00 AM
Lab ID: 1711K58-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	8.82	7.36		mg/Kg-dry	251899	20	11/21/2017 17:47	TA
Barium	80.2	8.98		mg/Kg-dry	251899	20	11/21/2017 17:47	TA
PERCENT MOISTURE D2216								
Percent Moisture	10.9	0		wt%	R357472	1	11/22/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-38
Project Name: Plant Kraft Excavation	Collection Date: 11/20/2017 10:26:00 AM
Lab ID: 1711K58-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.20		mg/Kg-dry	251899	20	11/21/2017 17:49	TA
Barium	25.5	8.57		mg/Kg-dry	251899	20	11/21/2017 17:49	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.89	0		wt%	R357472	1	11/22/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-39
Project Name: Plant Kraft Excavation	Collection Date: 11/20/2017 10:38:00 AM
Lab ID: 1711K58-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.16		mg/Kg-dry	251899	20	11/21/2017 17:51	TA
Barium	17.0	8.74		mg/Kg-dry	251899	20	11/21/2017 17:51	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.53	0		wt%	R357472	1	11/22/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Nov-17

Client: Georgia Power Company	Client Sample ID: RDCS-40
Project Name: Plant Kraft Excavation	Collection Date: 11/20/2017 10:50:00 AM
Lab ID: 1711K58-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.24		mg/Kg-dry	251899	20	11/21/2017 17:53	TA
Barium	13.9	8.83		mg/Kg-dry	251899	20	11/21/2017 17:53	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.50	0		wt%	R357472	1	11/22/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1711K58

ANALYTICAL QC SUMMARY REPORT

BatchID: 251899

Sample ID: MB-251899	Client ID:	Units: ug/Kg	Prep Date: 11/21/2017	Run No: 357505							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 251899	Analysis Date: 11/21/2017	Seq No: 7878673							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-251899	Client ID:	Units: ug/Kg	Prep Date: 11/21/2017	Run No: 357505							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251899	Analysis Date: 11/21/2017	Seq No: 7878675							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5926 5500 5000 125.9 116 80 120
 Barium 4679 500 5000 93.6 80 120

Sample ID: 1711K58-001AMS	Client ID: RDCS-34	Units: mg/Kg-dry	Prep Date: 11/21/2017	Run No: 357505							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251899	Analysis Date: 11/21/2017	Seq No: 7878680							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.32 4.815 111 75 125
 Barium 17.56 9.63 4.815 13.42 86.1 75 125

Sample ID: 1711K58-001AMSD	Client ID: RDCS-34	Units: mg/Kg-dry	Prep Date: 11/21/2017	Run No: 357505							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 251899	Analysis Date: 11/21/2017	Seq No: 7878682							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.33 4.824 106 75 125 5.320 0 20
 Barium 16.80 9.65 4.824 13.42 70.3 75 125 17.56 4.41 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 14, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1707931

Analytical Environmental Services, Inc. received 6 samples on 7/13/2017 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
 3080 Presidential Drive Atlanta, GA 30340-3704
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1707931

Date: 7/12/17 Page 1 of 4

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE B 10185 Atlanta GA 30308</u>				ANALYSIS REQUESTED						Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AES Access account.		Number of Containers																																									
PHONE: <u>770 296 9648</u>		EMAIL: <u>Ernest.howard@resolutions.com</u>				<table border="1"> <tr> <td>CPA 6020</td> <td>AS</td> <td>B6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="14">PRESERVATION (see codes)</td> </tr> <tr> <td colspan="14">REMARKS</td> </tr> </table>						CPA 6020	AS		B6													PRESERVATION (see codes)														REMARKS													
CPA 6020	AS	B6																																																					
PRESERVATION (see codes)																																																							
REMARKS																																																							
SAMPLED BY: <u>Ernest Howard</u>		SIGNATURE:				#		SAMPLE ID		SAMPLED:		GRAB		COMPOSITE		MATRIX (see codes)																																							
		DATE		TIME																																																			
1	<u>CS-15C^(FH)</u>		<u>6/27/17</u>	<u>0932</u>		<u>X</u>		<u>SO</u>		<u>X</u>							<u>1</u>																																						
2	<u>SWCS-15C-1.5</u>		<u>6/27/17</u>	<u>1030</u>		<u>X</u>		<u>SO</u>		<u>X</u>							<u>1</u>																																						
3	<u>SWCS-15C-4.0</u>		<u>6/27/17</u>	<u>1031</u>		<u>X</u>		<u>SO</u>		<u>X</u>							<u>1</u>																																						
4	<u>CS-15A</u>		<u>6/27/17</u>	<u>1505</u>		<u>X</u>		<u>SO</u>		<u>X</u>							<u>1</u>																																						
5	<u>SWCS-15A-1.5</u>		<u>6/27/17</u>	<u>1508</u>		<u>X</u>		<u>SO</u>		<u>X</u>							<u>1</u>																																						
6	<u>SWCS-15A-4.0</u>		<u>6/27/17</u>	<u>1510</u>		<u>X</u>		<u>SO</u>		<u>X</u>							<u>1</u>																																						
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RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION						RECEIPT																																									
1.		<u>7/12/17 1730</u>		1. <u>To FedEx</u>		<u>7/13/17 10:25</u>		PROJECT NAME: <u>Plant Kraft Excavation</u>						Total # of Containers <u>6</u>																																									
2.				2.				PROJECT #: _____						Turnaround Time (TAT) Request																																									
3.				3.				SITE ADDRESS: <u>155 E. Cross Creek Rd. Dunwoody GA</u>						<input type="checkbox"/> Standard 5 Business Days																																									
								SEND REPORT TO: <u>In comments</u>						<input type="checkbox"/> 2 Business Day Rush																																									
								INVOICE TO: <u>GPC Environmental Affairs</u>						<input checked="" type="checkbox"/> Next Business Day Rush																																									
								(IF DIFFERENT FROM ABOVE)						<input type="checkbox"/> Same-Day Rush (auth req.)																																									
								<u>sent w/ AES FedEx account</u>						<input type="checkbox"/> Other _____																																									
SPECIAL INSTRUCTIONS/COMMENTS: <u>Report to: Stephen Wilson Flight Geddum Ernest Howard Lea Miller Nick Heumen</u>				SHIPMENT METHOD				OUT: <u>1 1</u> VIA: _____						STATE PROGRAM (If any): _____																																									
								IN: VIA: _____						E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																																									
								client: <u>FedEx</u> UPS US mail courier Greyhound						DATA PACKAGE: <input type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> O																																									
								other: _____																																															

Analytical Environmental Services, Inc

Date: 14-Jul-17

Client: Georgia Power Company	Client Sample ID: CS-15C
Project Name: Plant Kraft Excavation	Collection Date: 6/27/2017 9:32:00 AM
Lab ID: 1707931-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.51		mg/Kg-dry	244984	5	07/13/2017 20:56	JR
Barium	67.4	1.84		mg/Kg-dry	244984	5	07/13/2017 20:56	JR
PERCENT MOISTURE D2216								
Percent Moisture	24.2	0		wt%	R347521	1	07/13/2017 18:02	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Jul-17

Client: Georgia Power Company	Client Sample ID: SWCS-15C-1.5
Project Name: Plant Kraft Excavation	Collection Date: 6/27/2017 10:30:00 AM
Lab ID: 1707931-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	4.29		mg/Kg-dry	244984	5	07/13/2017 21:02	JR
Barium	25.1	1.43		mg/Kg-dry	244984	5	07/13/2017 21:02	JR
PERCENT MOISTURE D2216								
Percent Moisture	6.74	0		wt%	R347521	1	07/13/2017 18:02	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Jul-17

Client: Georgia Power Company	Client Sample ID: CS-15A
Project Name: Plant Kraft Excavation	Collection Date: 6/27/2017 3:05:00 PM
Lab ID: 1707931-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.67		mg/Kg-dry	244984	5	07/13/2017 21:14	JR
Barium	38.0	2.89		mg/Kg-dry	244984	5	07/13/2017 21:14	JR
PERCENT MOISTURE D2216								
Percent Moisture	15.6	0		wt%	R347521	1	07/13/2017 18:02	CG

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1707931

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 7/13/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TD 7/13/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). TD 7/13/17

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1707931

ANALYTICAL QC SUMMARY REPORT

BatchID: 244984

Sample ID: MB-244984	Client ID:	Units: ug/Kg	Prep Date: 07/12/2017	Run No: 347435							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 244984	Analysis Date: 07/12/2017	Seq No: 7630553							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-244984	Client ID:	Units: ug/Kg	Prep Date: 07/12/2017	Run No: 347435							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 244984	Analysis Date: 07/12/2017	Seq No: 7630554							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4262 4000 5000 85.2 80 120
 Barium 4933 500 5000 98.7 80 120

Sample ID: 1707771-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 07/12/2017	Run No: 347435							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 244984	Analysis Date: 07/12/2017	Seq No: 7630556							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 15580 8040 5362 11490 76.3 75 125
 Barium 122700 536 5362 122100 10.5 75 125 S

Sample ID: 1707771-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 07/12/2017	Run No: 347435							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 244984	Analysis Date: 07/12/2017	Seq No: 7630557							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 16630 8050 5367 11490 95.9 75 125 15580 6.56 20
 Barium 127200 537 5367 122100 93.6 75 125 122700 3.57 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 10, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708897

Analytical Environmental Services, Inc. received 4 samples on 8/9/2017 11:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



CHAIN OF CUSTODY

COMPANY: Georgia Power Company		ADDRESS: 241 Ralph McGill Blvd SE B10185				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers	
PHONE: 770-296-9648		EMAIL: Forrest.howard@aes.com				EPA6020 Ba TPH-DRG													
SAMPLED BY: Forrest Howard		SIGNATURE:				PRESERVATION (see codes)										REMARKS			
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	I	I											
1	DCS-01-N	8/8/17	1525	X		SO	X	X										1	
2	DCS-01-E	8/8/17	1530	X		SO	X	X										1	
3	DCS-01-S	8/8/17	1535	X		SO	X	X										1	
4	DCS-01-W	8/8/17	1540	X		SO	X	X										1	
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
RELINQUISHED BY:		DATE/TIME: 8/8/17 1730		RECEIVED BY: 1. To Factor		DATE/TIME:		PROJECT INFORMATION										RECEIPT	
1.		2.		2. Mayfield 8/9/17 1130		3.		PROJECT NAME: Plant Kraft Excavation										Total # of Containers 4	
3.								PROJECT #: 155 Crossgate Rd Perimeter GA										Turnaround Time (TAT) Request	
SPECIAL INSTRUCTIONS/COMMENTS: Report to: Stephen Wilson, Trent Cochran, Forrest Howard, Lee Millat, Nick Heumen		SHIPMENT METHOD		OUT: / / VIA:		IN: / / VIA:		SITE ADDRESS: 155 Crossgate Rd Perimeter GA										<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other	
		client FedEx UPS US mail courier Greyhound		other:				SEND REPORT TO: In comments										STATE PROGRAM (if any):	
								INVOICE TO: GPK Environmental Affairs										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
								QUOTE #: PO#:										DATA PACKAGE: I O II O III O IV O	

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1708897

Case Narrative

Samples were analyzed for 8270 PAH's in addition to the analysis on the COC per Forrest Howard via phone on 8/9/2017.

Analytical Environmental Services, Inc

Date: 10-Aug-17

Client: Georgia Power Company	Client Sample ID: DCS-01-N
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:25:00 PM
Lab ID: 1708897-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Benzo(b)fluoranthene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Benzo(a)pyrene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Indeno(1,2,3-cd)pyrene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Surr: 2-Fluorobiphenyl	79.9	53.3-120		%REC	246700	1	08/09/2017 18:45	RF
Surr: 4-Terphenyl-d14	92.7	61.2-120		%REC	246700	1	08/09/2017 18:45	RF
Surr: Nitrobenzene-d5	77.7	52.7-120		%REC	246700	1	08/09/2017 18:45	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.06		mg/Kg-dry	246708	1	08/09/2017 22:22	JR
Barium	30.1	0.54		mg/Kg-dry	246708	1	08/09/2017 22:22	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	246699	1	08/09/2017 17:54	RF
Surr: Dioctylphthalate	71.1	54.5-121		%REC	246699	1	08/09/2017 17:54	RF
PERCENT MOISTURE D2216								
Percent Moisture	10.6	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Aug-17

Client: Georgia Power Company	Client Sample ID: DCS-01-E
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:30:00 PM
Lab ID: 1708897-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Benzo(a)pyrene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Surr: 2-Fluorobiphenyl	73.7	53.3-120		%REC	246700	1	08/09/2017 19:08	RF
Surr: 4-Terphenyl-d14	86.5	61.2-120		%REC	246700	1	08/09/2017 19:08	RF
Surr: Nitrobenzene-d5	74.2	52.7-120		%REC	246700	1	08/09/2017 19:08	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.54		mg/Kg-dry	246708	1	08/09/2017 22:53	JR
Barium	38.0	0.50		mg/Kg-dry	246708	1	08/09/2017 22:53	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	246699	1	08/09/2017 18:24	RF
Surr: Dioctylphthalate	85.9	54.5-121		%REC	246699	1	08/09/2017 18:24	RF
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-S
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:35:00 PM
Lab ID: 1708897-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Benz(a)anthracene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Benzo(a)pyrene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Surr: 2-Fluorobiphenyl	78.2	53.3-120		%REC	246700	1	08/10/2017 09:27	RF
Surr: 4-Terphenyl-d14	88.5	61.2-120		%REC	246700	1	08/10/2017 09:27	RF
Surr: Nitrobenzene-d5	71.8	52.7-120		%REC	246700	1	08/10/2017 09:27	RF
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.76		mg/Kg-dry	246708	1	08/09/2017 22:59	JR
Barium	37.0	0.52		mg/Kg-dry	246708	1	08/09/2017 22:59	JR
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	246699	1	08/09/2017 18:53	RF
Surr: Dioctylphthalate	72.9	54.5-121		%REC	246699	1	08/09/2017 18:53	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-W
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:40:00 PM
Lab ID: 1708897-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Benzo(b)fluoranthene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Benzo(a)pyrene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Indeno(1,2,3-cd)pyrene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Surr: 2-Fluorobiphenyl	79.4	53.3-120		%REC	246700	1	08/09/2017 19:54	RF
Surr: 4-Terphenyl-d14	86.9	61.2-120		%REC	246700	1	08/09/2017 19:54	RF
Surr: Nitrobenzene-d5	75.8	52.7-120		%REC	246700	1	08/09/2017 19:54	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.63		mg/Kg-dry	246708	1	08/09/2017 23:05	JR
Barium	126	0.58		mg/Kg-dry	246708	1	08/09/2017 23:05	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.5		mg/Kg-dry	246699	1	08/09/2017 19:23	RF
Surr: Dioctylphthalate	84.3	54.5-121		%REC	246699	1	08/09/2017 19:23	RF
PERCENT MOISTURE D2216								
Percent Moisture	20.9	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246699

Sample ID: MB-246699	Client ID:	Units: mg/Kg	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678971							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 3.012 0 3.300 91.3 54.5 121

Sample ID: LCS-246699	Client ID:	Units: mg/Kg	Prep Date: 08/09/2017	Run No: 349425							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678972							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 35.14 6.7 33.30 106 54.6 120
 Surr: Dioctylphthalate 3.054 0 3.330 91.7 54.5 121

Sample ID: 1708897-001AMS	Client ID: DCS-01-N	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678977							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 36.04 7.5 37.24 96.8 40.6 122
 Surr: Dioctylphthalate 3.120 0 3.724 83.8 54.5 121

Sample ID: 1708897-001AMSD	Client ID: DCS-01-N	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678978							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 37.67 7.5 37.24 101 40.6 122 36.04 4.41 29.9
 Surr: Dioctylphthalate 3.254 0 3.724 87.4 54.5 121 3.120 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246700

Sample ID: MB-246700	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349387							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678140							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1310	0	1667		78.6	53.3	120				
Surr: 4-Terphenyl-d14	1416	0	1667		85.0	61.2	120				
Surr: Nitrobenzene-d5	1338	0	1667		80.3	52.7	120				

Sample ID: LCS-246700	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349387							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678141							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1487	330	1667		89.2	70	120				
Benzo(a)pyrene	1400	330	1667		84.0	70	120				
Benzo(b)fluoranthene	1490	330	1667		89.4	70	120				
Indeno(1,2,3-cd)pyrene	1867	330	1667		112	70	120				
Surr: 2-Fluorobiphenyl	1478	0	1667		88.7	53.3	120				
Surr: 4-Terphenyl-d14	1507	0	1667		90.4	61.2	120				
Surr: Nitrobenzene-d5	1422	0	1667		85.3	52.7	120				

Sample ID: 1708897-002AMS	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349428							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/10/2017	Seq No: 7678906							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1599	390	1964		81.4	68.5	120				
Benzo(a)pyrene	1481	390	1964		75.4	67	120				
Benzo(b)fluoranthene	1547	390	1964		78.8	68.3	120				
Indeno(1,2,3-cd)pyrene	1495	390	1964		76.1	58.4	119				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246700

Sample ID: 1708897-002AMS	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349428							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/10/2017	Seq No: 7678906							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 2-Fluorobiphenyl	1445	0	1964		73.6	53.3	120				
Surr: 4-Terphenyl-d14	1600	0	1964		81.4	61.2	120				
Surr: Nitrobenzene-d5	1374	0	1964		70.0	52.7	120				

Sample ID: 1708897-002AMSD	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349387							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678147							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1709	390	1964		87.0	68.5	120	1885	9.76	19.1	
Benzo(a)pyrene	1645	390	1964		83.7	67	120	1745	5.90	20	
Benzo(b)fluoranthene	1696	390	1964		86.4	68.3	120	1823	7.23	19.8	
Indeno(1,2,3-cd)pyrene	1644	390	1964		83.7	58.4	119	1762	6.93	18.6	
Surr: 2-Fluorobiphenyl	1449	0	1964		73.8	53.3	120	1703	0	0	
Surr: 4-Terphenyl-d14	1735	0	1964		88.4	61.2	120	1885	0	0	
Surr: Nitrobenzene-d5	1593	0	1964		81.1	52.7	120	1619	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246708

Sample ID: MB-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678588							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678589							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4688 1500 5000 93.8 80 120
 Barium 5135 500 5000 103 80 120

Sample ID: 1708897-001AMS	Client ID: DCS-01-N	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678591							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8060 5371 1234 74.6 75 125 S
 Barium 39300 537 5371 30050 172 75 125 S

Sample ID: 1708897-001AMSD	Client ID: DCS-01-N	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678592							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8050 5370 1234 71.1 75 125 5243 0 20 S
 Barium 41820 537 5370 30050 219 75 125 39300 6.23 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 10, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708897

Analytical Environmental Services, Inc. received 4 samples on 8/9/2017 11:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



CHAIN OF CUSTODY

COMPANY: Georgia Power Company		ADDRESS: 241 Ralph McGill Blvd SE B10185				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers	
PHONE: 770-296-9648		EMAIL: Forrest.howard@aes.com				EPA6020 Ba TPH-DRG													
SAMPLED BY: Forrest Howard		SIGNATURE:				PRESERVATION (see codes)										REMARKS			
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)													
		DATE	TIME				I	I											
1	DCS-01-N	8/8/17	1525	X		SO	X	X									1		
2	DCS-01-E	8/8/17	1530	X		SO	X	X									1		
3	DCS-01-S	8/8/17	1535	X		SO	X	X									1		
4	DCS-01-W	8/8/17	1540	X		SO	X	X									1		
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
RELINQUISHED BY:		DATE/TIME: 8/8/17 1730		RECEIVED BY: 1. To Factor		DATE/TIME:		PROJECT INFORMATION										RECEIPT	
1.		2. 8/8/17 1730		2.		3. 8/8/17 1130		PROJECT NAME: Plant Kraft Excavation										Total # of Containers 4	
2.				2.				PROJECT #:										Turnaround Time (TAT) Request	
3.				3.				SITE ADDRESS: 155 Crossgate Rd Perimeter GA										<input type="checkbox"/> Standard 5 Business Days	
SPECIAL INSTRUCTIONS/COMMENTS: Report to: Stephen Wilson, Trent Cochran, Forrest Howard, Lee Millat, Nick Heumen		SHIPMENT METHOD		OUT: / / VIA:		IN: / / VIA:		SEND REPORT TO: In comments										<input type="checkbox"/> 2 Business Day Rush	
		client FedEx UPS US mail courier Greyhound		other: _____				INVOICE TO: GPK Environmental Affairs										<input checked="" type="checkbox"/> Next Business Day Rush	
								(IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same-Day Rush (auth req.)	
								QUOTE #: _____ PO#: _____										<input type="checkbox"/> Other _____	
																		STATE PROGRAM (if any): _____	
																		E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
																		DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>	

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1708897

Case Narrative

Samples were analyzed for 8270 PAH's in addition to the analysis on the COC per Forrest Howard via phone on 8/9/2017.

Analytical Environmental Services, Inc

Date: 10-Aug-17

Client: Georgia Power Company	Client Sample ID: DCS-01-N
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:25:00 PM
Lab ID: 1708897-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Benzo(b)fluoranthene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Benzo(a)pyrene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Indeno(1,2,3-cd)pyrene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Surr: 2-Fluorobiphenyl	79.9	53.3-120		%REC	246700	1	08/09/2017 18:45	RF
Surr: 4-Terphenyl-d14	92.7	61.2-120		%REC	246700	1	08/09/2017 18:45	RF
Surr: Nitrobenzene-d5	77.7	52.7-120		%REC	246700	1	08/09/2017 18:45	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.06		mg/Kg-dry	246708	1	08/09/2017 22:22	JR
Barium	30.1	0.54		mg/Kg-dry	246708	1	08/09/2017 22:22	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	246699	1	08/09/2017 17:54	RF
Surr: Dioctylphthalate	71.1	54.5-121		%REC	246699	1	08/09/2017 17:54	RF
PERCENT MOISTURE D2216								
Percent Moisture	10.6	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Aug-17

Client: Georgia Power Company	Client Sample ID: DCS-01-E
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:30:00 PM
Lab ID: 1708897-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Benzo(a)pyrene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Surr: 2-Fluorobiphenyl	73.7	53.3-120		%REC	246700	1	08/09/2017 19:08	RF
Surr: 4-Terphenyl-d14	86.5	61.2-120		%REC	246700	1	08/09/2017 19:08	RF
Surr: Nitrobenzene-d5	74.2	52.7-120		%REC	246700	1	08/09/2017 19:08	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.54		mg/Kg-dry	246708	1	08/09/2017 22:53	JR
Barium	38.0	0.50		mg/Kg-dry	246708	1	08/09/2017 22:53	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	246699	1	08/09/2017 18:24	RF
Surr: Dioctylphthalate	85.9	54.5-121		%REC	246699	1	08/09/2017 18:24	RF
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-S
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:35:00 PM
Lab ID: 1708897-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Benzo(a)pyrene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Surr: 2-Fluorobiphenyl	78.2	53.3-120		%REC	246700	1	08/10/2017 09:27	RF
Surr: 4-Terphenyl-d14	88.5	61.2-120		%REC	246700	1	08/10/2017 09:27	RF
Surr: Nitrobenzene-d5	71.8	52.7-120		%REC	246700	1	08/10/2017 09:27	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.76		mg/Kg-dry	246708	1	08/09/2017 22:59	JR
Barium	37.0	0.52		mg/Kg-dry	246708	1	08/09/2017 22:59	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	246699	1	08/09/2017 18:53	RF
Surr: Dioctylphthalate	72.9	54.5-121		%REC	246699	1	08/09/2017 18:53	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-W
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:40:00 PM
Lab ID: 1708897-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Benzo(b)fluoranthene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Benzo(a)pyrene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Indeno(1,2,3-cd)pyrene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Surr: 2-Fluorobiphenyl	79.4	53.3-120		%REC	246700	1	08/09/2017 19:54	RF
Surr: 4-Terphenyl-d14	86.9	61.2-120		%REC	246700	1	08/09/2017 19:54	RF
Surr: Nitrobenzene-d5	75.8	52.7-120		%REC	246700	1	08/09/2017 19:54	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.63		mg/Kg-dry	246708	1	08/09/2017 23:05	JR
Barium	126	0.58		mg/Kg-dry	246708	1	08/09/2017 23:05	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.5		mg/Kg-dry	246699	1	08/09/2017 19:23	RF
Surr: Dioctylphthalate	84.3	54.5-121		%REC	246699	1	08/09/2017 19:23	RF
PERCENT MOISTURE D2216								
Percent Moisture	20.9	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246699

Sample ID: MB-246699	Client ID:	Units: mg/Kg	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678971							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 3.012 0 3.300 91.3 54.5 121

Sample ID: LCS-246699	Client ID:	Units: mg/Kg	Prep Date: 08/09/2017	Run No: 349425							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678972							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 35.14 6.7 33.30 106 54.6 120
 Surr: Dioctylphthalate 3.054 0 3.330 91.7 54.5 121

Sample ID: 1708897-001AMS	Client ID: DCS-01-N	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678977							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 36.04 7.5 37.24 96.8 40.6 122
 Surr: Dioctylphthalate 3.120 0 3.724 83.8 54.5 121

Sample ID: 1708897-001AMSD	Client ID: DCS-01-N	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349425							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 246699	Analysis Date: 08/09/2017	Seq No: 7678978							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 37.67 7.5 37.24 101 40.6 122 36.04 4.41 29.9
 Surr: Dioctylphthalate 3.254 0 3.724 87.4 54.5 121 3.120 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246700

Sample ID: MB-246700	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349387							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678140							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1310	0	1667		78.6	53.3	120				
Surr: 4-Terphenyl-d14	1416	0	1667		85.0	61.2	120				
Surr: Nitrobenzene-d5	1338	0	1667		80.3	52.7	120				

Sample ID: LCS-246700	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349387							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678141							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1487	330	1667		89.2	70	120				
Benzo(a)pyrene	1400	330	1667		84.0	70	120				
Benzo(b)fluoranthene	1490	330	1667		89.4	70	120				
Indeno(1,2,3-cd)pyrene	1867	330	1667		112	70	120				
Surr: 2-Fluorobiphenyl	1478	0	1667		88.7	53.3	120				
Surr: 4-Terphenyl-d14	1507	0	1667		90.4	61.2	120				
Surr: Nitrobenzene-d5	1422	0	1667		85.3	52.7	120				

Sample ID: 1708897-002AMS	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349428							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/10/2017	Seq No: 7678906							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1599	390	1964		81.4	68.5	120				
Benzo(a)pyrene	1481	390	1964		75.4	67	120				
Benzo(b)fluoranthene	1547	390	1964		78.8	68.3	120				
Indeno(1,2,3-cd)pyrene	1495	390	1964		76.1	58.4	119				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246700

Sample ID: 1708897-002AMS	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349428							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/10/2017	Seq No: 7678906							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 2-Fluorobiphenyl	1445	0	1964		73.6	53.3	120				
Surr: 4-Terphenyl-d14	1600	0	1964		81.4	61.2	120				
Surr: Nitrobenzene-d5	1374	0	1964		70.0	52.7	120				

Sample ID: 1708897-002AMSD	Client ID: DCS-01-E	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349387							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 246700	Analysis Date: 08/09/2017	Seq No: 7678147							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1709	390	1964		87.0	68.5	120	1885	9.76	19.1	
Benzo(a)pyrene	1645	390	1964		83.7	67	120	1745	5.90	20	
Benzo(b)fluoranthene	1696	390	1964		86.4	68.3	120	1823	7.23	19.8	
Indeno(1,2,3-cd)pyrene	1644	390	1964		83.7	58.4	119	1762	6.93	18.6	
Surr: 2-Fluorobiphenyl	1449	0	1964		73.8	53.3	120	1703	0	0	
Surr: 4-Terphenyl-d14	1735	0	1964		88.4	61.2	120	1885	0	0	
Surr: Nitrobenzene-d5	1593	0	1964		81.1	52.7	120	1619	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708897

ANALYTICAL QC SUMMARY REPORT

BatchID: 246708

Sample ID: MB-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678588							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678589							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4688 1500 5000 93.8 80 120
 Barium 5135 500 5000 103 80 120

Sample ID: 1708897-001AMS	Client ID: DCS-01-N	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678591							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8060 5371 1234 74.6 75 125 S
 Barium 39300 537 5371 30050 172 75 125 S

Sample ID: 1708897-001AMSD	Client ID: DCS-01-N	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678592							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8050 5370 1234 71.1 75 125 5243 0 20 S
 Barium 41820 537 5370 30050 219 75 125 39300 6.23 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 06, 2017

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1711312

Analytical Environmental Services, Inc. received 19 samples on 11/3/2017 9:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 12/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 6-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-53
Project Name: Plant Kraft Excavation	Collection Date: 10/30/2017 2:05:00 PM
Lab ID: 1711312-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.96		mg/Kg-dry	250986	20	11/06/2017 00:54	TA
Barium	9.65	7.73		mg/Kg-dry	250986	20	11/06/2017 00:54	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.84	0		wt%	R356115	1	11/06/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-54
Project Name: Plant Kraft Excavation	Collection Date: 10/30/2017 3:30:00 PM
Lab ID: 1711312-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.00		mg/Kg-dry	250986	20	11/06/2017 00:55	TA
Barium	41.1	8.75		mg/Kg-dry	250986	20	11/06/2017 00:55	TA
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R356115	1	11/06/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-55
Project Name: Plant Kraft Excavation	Collection Date: 10/30/2017 3:35:00 PM
Lab ID: 1711312-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.17		mg/Kg-dry	250986	20	11/06/2017 00:57	TA
Barium	11.4	7.96		mg/Kg-dry	250986	20	11/06/2017 00:57	TA
PERCENT MOISTURE D2216								
Percent Moisture	10.4	0		wt%	R356115	1	11/06/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-56
Project Name: Plant Kraft Excavation	Collection Date: 10/31/2017 11:15:00 AM
Lab ID: 1711312-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.87		mg/Kg-dry	250986	20	11/06/2017 00:59	TA
Barium	12.1	7.63		mg/Kg-dry	250986	20	11/06/2017 00:59	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.50	0		wt%	R356115	1	11/06/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-59
Project Name: Plant Kraft Excavation	Collection Date: 11/1/2017 10:55:00 AM
Lab ID: 1711312-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.82		mg/Kg-dry	250986	20	11/06/2017 01:10	TA
Barium	10.6	7.58		mg/Kg-dry	250986	20	11/06/2017 01:10	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.35	0		wt%	R356115	1	11/06/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-62
Project Name: Plant Kraft Excavation	Collection Date: 11/1/2017 4:10:00 PM
Lab ID: 1711312-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.05		mg/Kg-dry	250986	20	11/06/2017 01:16	TA
Barium	36.9	7.83		mg/Kg-dry	250986	20	11/06/2017 01:16	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.89	0		wt%	R356115	1	11/06/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-64
Project Name: Plant Kraft Excavation	Collection Date: 11/2/2017 9:24:00 AM
Lab ID: 1711312-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.17		mg/Kg-dry	250986	20	11/06/2017 01:19	TA
Barium	12.5	7.97		mg/Kg-dry	250986	20	11/06/2017 01:19	TA
PERCENT MOISTURE D2216								
Percent Moisture	10.6	0		wt%	R356115	1	11/06/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-65
Project Name: Plant Kraft Excavation	Collection Date: 11/2/2017 12:30:00 PM
Lab ID: 1711312-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.22		mg/Kg-dry	250986	20	11/06/2017 01:21	TA
Barium	13.4	8.02		mg/Kg-dry	250986	20	11/06/2017 01:21	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.78	0		wt%	R356115	1	11/06/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-67
Project Name: Plant Kraft Excavation	Collection Date: 11/2/2017 3:12:00 PM
Lab ID: 1711312-019	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.41		mg/Kg-dry	250986	20	11/06/2017 01:30	TA
Barium	22.6	8.23		mg/Kg-dry	250986	20	11/06/2017 01:30	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.08	0		wt%	R356115	1	11/06/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1711312

ANALYTICAL QC SUMMARY REPORT

BatchID: 250986

Sample ID: MB-250986	Client ID:	Units: ug/Kg	Prep Date: 11/03/2017	Run No: 356126							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 250986	Analysis Date: 11/06/2017	Seq No: 7844494							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-250986	Client ID:	Units: ug/Kg	Prep Date: 11/03/2017	Run No: 356126							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 250986	Analysis Date: 11/06/2017	Seq No: 7844495							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4029 4000 5000 80.6 80 120
 Barium 4602 500 5000 92.0 80 120

Sample ID: 1711029-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 11/03/2017	Run No: 356126							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 250986	Analysis Date: 11/06/2017	Seq No: 7844497							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.841 5.72 4.084 1.970 94.8 75 125
 Barium 29.74 8.17 4.084 20.51 226 75 125 S

Sample ID: 1711029-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 11/03/2017	Run No: 356126							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 250986	Analysis Date: 11/06/2017	Seq No: 7844498							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.876 5.69 4.068 1.970 96.0 75 125 5.841 0.593 20
 Barium 27.76 8.14 4.068 20.51 178 75 125 29.74 6.90 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 10, 2017

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1711867

Analytical Environmental Services, Inc. received 22 samples on 11/9/2017 10:15:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 12/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-68
Project Name: Plant Kraft Excavation	Collection Date: 11/3/2017 8:55:00 AM
Lab ID: 1711867-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.30		mg/Kg-dry	251150	20	11/10/2017 05:15	TA
Barium	12.6	7.87		mg/Kg-dry	251150	20	11/10/2017 05:15	TA
PERCENT MOISTURE D2216								
Percent Moisture	10.5	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-70
Project Name: Plant Kraft Excavation	Collection Date: 11/3/2017 12:02:00 PM
Lab ID: 1711867-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.44		mg/Kg-dry	251293	20	11/10/2017 10:10	TA
Barium	6.72	0.93		mg/Kg-dry	251293	20	11/10/2017 10:10	TA
PERCENT MOISTURE D2216								
Percent Moisture	5.26	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-71
Project Name: Plant Kraft Excavation	Collection Date: 11/6/2017 9:44:00 AM
Lab ID: 1711867-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.49		mg/Kg-dry	251293	20	11/10/2017 10:12	TA
Barium	10.0	7.49		mg/Kg-dry	251293	20	11/10/2017 10:12	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.02	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-72
Project Name: Plant Kraft Excavation	Collection Date: 11/6/2017 9:52:00 AM
Lab ID: 1711867-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.67		mg/Kg-dry	251293	20	11/10/2017 10:14	TA
Barium	9.39	6.67		mg/Kg-dry	251293	20	11/10/2017 10:14	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.50	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-74
Project Name: Plant Kraft Excavation	Collection Date: 11/6/2017 10:02:00 AM
Lab ID: 1711867-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.18		mg/Kg-dry	251293	20	11/10/2017 10:45	TA
Barium	14.2	7.97		mg/Kg-dry	251293	20	11/10/2017 10:45	TA
PERCENT MOISTURE D2216								
Percent Moisture	4.91	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-75
Project Name: Plant Kraft Excavation	Collection Date: 11/6/2017 10:14:00 AM
Lab ID: 1711867-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.31		mg/Kg-dry	251293	20	11/10/2017 10:47	TA
Barium	5.08	0.66		mg/Kg-dry	251293	20	11/10/2017 10:47	TA
PERCENT MOISTURE D2216								
Percent Moisture	3.65	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-76
Project Name: Plant Kraft Excavation	Collection Date: 11/6/2017 10:18:00 AM
Lab ID: 1711867-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.94		mg/Kg-dry	251293	20	11/10/2017 10:49	TA
Barium	31.4	8.26		mg/Kg-dry	251293	20	11/10/2017 10:49	TA
PERCENT MOISTURE D2216								
Percent Moisture	10.1	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-77
Project Name: Plant Kraft Excavation	Collection Date: 11/6/2017 10:34:00 AM
Lab ID: 1711867-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.10		mg/Kg-dry	251293	20	11/10/2017 10:50	TA
Barium	11.3	10.1		mg/Kg-dry	251293	20	11/10/2017 10:50	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.42	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-78
Project Name: Plant Kraft Excavation	Collection Date: 11/6/2017 12:16:00 PM
Lab ID: 1711867-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.44		mg/Kg-dry	251293	20	11/10/2017 10:52	TA
Barium	15.5	9.30		mg/Kg-dry	251293	20	11/10/2017 10:52	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.88	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-80
Project Name: Plant Kraft Excavation	Collection Date: 11/6/2017 1:26:00 PM
Lab ID: 1711867-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.37		mg/Kg-dry	251293	20	11/10/2017 10:56	TA
Barium	9.92	9.21		mg/Kg-dry	251293	20	11/10/2017 10:56	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.17	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-81
Project Name: Plant Kraft Excavation	Collection Date: 11/6/2017 2:54:00 PM
Lab ID: 1711867-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.00		mg/Kg-dry	251293	20	11/10/2017 10:58	TA
Barium	9.73	6.36		mg/Kg-dry	251293	20	11/10/2017 10:58	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.06	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-82
Project Name: Plant Kraft Excavation	Collection Date: 11/6/2017 3:48:00 PM
Lab ID: 1711867-015	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.27		mg/Kg-dry	251293	20	11/10/2017 11:00	TA
Barium	6.01	1.03		mg/Kg-dry	251293	20	11/10/2017 11:00	TA
PERCENT MOISTURE D2216								
Percent Moisture	5.15	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-83
Project Name: Plant Kraft Excavation	Collection Date: 11/7/2017 7:56:00 AM
Lab ID: 1711867-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.29		mg/Kg-dry	251293	20	11/10/2017 11:12	TA
Barium	8.88	1.04		mg/Kg-dry	251293	20	11/10/2017 11:12	TA
PERCENT MOISTURE D2216								
Percent Moisture	5.87	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-84
Project Name: Plant Kraft Excavation	Collection Date: 11/7/2017 10:24:00 AM
Lab ID: 1711867-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.28		mg/Kg-dry	251293	20	11/10/2017 11:14	TA
Barium	12.7	6.62		mg/Kg-dry	251293	20	11/10/2017 11:14	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.86	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-85
Project Name: Plant Kraft Excavation	Collection Date: 11/7/2017 12:36:00 PM
Lab ID: 1711867-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.14		mg/Kg-dry	251293	20	11/10/2017 11:16	TA
Barium	19.7	8.11		mg/Kg-dry	251293	20	11/10/2017 11:16	TA
PERCENT MOISTURE D2216								
Percent Moisture	6.56	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-87
Project Name: Plant Kraft Excavation	Collection Date: 11/8/2017 8:40:00 AM
Lab ID: 1711867-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.19		mg/Kg-dry	251293	20	11/10/2017 11:20	TA
Barium	5.84	0.65		mg/Kg-dry	251293	20	11/10/2017 11:20	TA
PERCENT MOISTURE D2216								
Percent Moisture	3.38	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-88
Project Name: Plant Kraft Excavation	Collection Date: 11/8/2017 12:32:00 PM
Lab ID: 1711867-021	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.35		mg/Kg-dry	251293	20	11/10/2017 11:21	TA
Barium	8.59	0.92		mg/Kg-dry	251293	20	11/10/2017 11:21	TA
PERCENT MOISTURE D2216								
Percent Moisture	4.42	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Nov-17

Client: Georgia Power Company	Client Sample ID: LFCS-89
Project Name: Plant Kraft Excavation	Collection Date: 11/8/2017 2:58:00 PM
Lab ID: 1711867-022	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.38		mg/Kg-dry	251293	20	11/10/2017 10:01	TA
Barium	10.4	9.22		mg/Kg-dry	251293	20	11/10/2017 10:01	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.55	0		wt%	R356562	1	11/10/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1711867

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.7 °C Cooler 2 Temperature 0.3 °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 11/9/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MA 11/9/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MA 11/9/17



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1711867

ANALYTICAL QC SUMMARY REPORT

BatchID: 251150

Sample ID: MB-251150	Client ID:	Units: ug/Kg	Prep Date: 11/09/2017	Run No: 356575							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 251150	Analysis Date: 11/10/2017	Seq No: 7855842							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-251150	Client ID:	Units: ug/Kg	Prep Date: 11/09/2017	Run No: 356575							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251150	Analysis Date: 11/10/2017	Seq No: 7855843							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5586 5500 5000 112 80 120
 Barium 4754 500 5000 95.1 80 120

Sample ID: 1711349-001BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 11/09/2017	Run No: 356575							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251150	Analysis Date: 11/10/2017	Seq No: 7855845							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6.582 6.34 4.531 145 75 125 S
 Barium 90.93 9.06 4.531 2010 75 125 S

Sample ID: 1711349-001BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 11/09/2017	Run No: 356575							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 251150	Analysis Date: 11/10/2017	Seq No: 7855846							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6.405 6.35 4.533 141 75 125 6.582 2.73 20 S
 Barium 82.24 9.07 4.533 1810 75 125 90.93 10.0 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1711867

ANALYTICAL QC SUMMARY REPORT

BatchID: 251293

Sample ID: MB-251293	Client ID:	Units: ug/Kg	Prep Date: 11/09/2017	Run No: 356576							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 251293	Analysis Date: 11/10/2017	Seq No: 7855877							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-251293	Client ID:	Units: ug/Kg	Prep Date: 11/09/2017	Run No: 356576							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251293	Analysis Date: 11/10/2017	Seq No: 7855878							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5559 5500 5000 111 80 120
 Barium 4654 500 5000 93.1 80 120

Sample ID: 1711867-022AMS	Client ID: LFCS-89	Units: mg/Kg-dry	Prep Date: 11/09/2017	Run No: 356576							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251293	Analysis Date: 11/10/2017	Seq No: 7855880							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.584 5.54 4.615 0.8039 104 75 125
 Barium 16.07 9.23 4.615 10.45 122 75 125

Sample ID: 1711867-022AMSD	Client ID: LFCS-89	Units: mg/Kg-dry	Prep Date: 11/09/2017	Run No: 356576							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 251293	Analysis Date: 11/10/2017	Seq No: 7855881							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.576 5.54 4.613 0.8039 103 75 125 5.584 0.132 20
 Barium 17.24 9.23 4.613 10.45 147 75 125 16.07 7.06 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: CS-15D
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 1:40:00 PM
Lab ID: 1706R44-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYCHLORINATED BIPHENYLS SW8082A					(SW3550C)			
Aroclor 1016	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1221	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1232	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1242	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1248	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1254	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Aroclor 1260	BRL	38		ug/Kg-dry	244834	1	06/29/2017 16:58	SH
Surr: Decachlorobiphenyl	82.1	43.2-138		%REC	244834	1	06/29/2017 16:58	SH
Surr: Tetrachloro-m-xylene	74.3	46-128		%REC	244834	1	06/29/2017 16:58	SH
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.46		mg/Kg-dry	244835	1	06/29/2017 18:26	JR
Barium	39.0	0.43		mg/Kg-dry	244835	1	06/29/2017 18:26	JR
PERCENT MOISTURE D2216								
Percent Moisture	11.2	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Aug-17

Client: Georgia Power Company	Client Sample ID: DCS-01-N
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:25:00 PM
Lab ID: 1708897-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Benzo(b)fluoranthene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Benzo(a)pyrene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Indeno(1,2,3-cd)pyrene	BRL	370		ug/Kg-dry	246700	1	08/09/2017 18:45	RF
Surr: 2-Fluorobiphenyl	79.9	53.3-120		%REC	246700	1	08/09/2017 18:45	RF
Surr: 4-Terphenyl-d14	92.7	61.2-120		%REC	246700	1	08/09/2017 18:45	RF
Surr: Nitrobenzene-d5	77.7	52.7-120		%REC	246700	1	08/09/2017 18:45	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.06		mg/Kg-dry	246708	1	08/09/2017 22:22	JR
Barium	30.1	0.54		mg/Kg-dry	246708	1	08/09/2017 22:22	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	246699	1	08/09/2017 17:54	RF
Surr: Dioctylphthalate	71.1	54.5-121		%REC	246699	1	08/09/2017 17:54	RF
PERCENT MOISTURE D2216								
Percent Moisture	10.6	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-E
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:30:00 PM
Lab ID: 1708897-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Benzo(a)pyrene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	246700	1	08/09/2017 19:08	RF
Surr: 2-Fluorobiphenyl	73.7	53.3-120		%REC	246700	1	08/09/2017 19:08	RF
Surr: 4-Terphenyl-d14	86.5	61.2-120		%REC	246700	1	08/09/2017 19:08	RF
Surr: Nitrobenzene-d5	74.2	52.7-120		%REC	246700	1	08/09/2017 19:08	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.54		mg/Kg-dry	246708	1	08/09/2017 22:53	JR
Barium	38.0	0.50		mg/Kg-dry	246708	1	08/09/2017 22:53	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	246699	1	08/09/2017 18:24	RF
Surr: Dioctylphthalate	85.9	54.5-121		%REC	246699	1	08/09/2017 18:24	RF
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-S
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:35:00 PM
Lab ID: 1708897-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Benzo(a)pyrene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	246700	1	08/10/2017 09:27	RF
Surr: 2-Fluorobiphenyl	78.2	53.3-120		%REC	246700	1	08/10/2017 09:27	RF
Surr: 4-Terphenyl-d14	88.5	61.2-120		%REC	246700	1	08/10/2017 09:27	RF
Surr: Nitrobenzene-d5	71.8	52.7-120		%REC	246700	1	08/10/2017 09:27	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.76		mg/Kg-dry	246708	1	08/09/2017 22:59	JR
Barium	37.0	0.52		mg/Kg-dry	246708	1	08/09/2017 22:59	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	246699	1	08/09/2017 18:53	RF
Surr: Dioctylphthalate	72.9	54.5-121		%REC	246699	1	08/09/2017 18:53	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Georgia Power Company	Client Sample ID: DCS-01-W
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 3:40:00 PM
Lab ID: 1708897-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benz(a)anthracene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Benzo(b)fluoranthene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Benzo(a)pyrene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Indeno(1,2,3-cd)pyrene	BRL	420		ug/Kg-dry	246700	1	08/09/2017 19:54	RF
Surr: 2-Fluorobiphenyl	79.4	53.3-120		%REC	246700	1	08/09/2017 19:54	RF
Surr: 4-Terphenyl-d14	86.9	61.2-120		%REC	246700	1	08/09/2017 19:54	RF
Surr: Nitrobenzene-d5	75.8	52.7-120		%REC	246700	1	08/09/2017 19:54	RF
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.63		mg/Kg-dry	246708	1	08/09/2017 23:05	JR
Barium	126	0.58		mg/Kg-dry	246708	1	08/09/2017 23:05	JR
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.5		mg/Kg-dry	246699	1	08/09/2017 19:23	RF
Surr: Dioctylphthalate	84.3	54.5-121		%REC	246699	1	08/09/2017 19:23	RF
PERCENT MOISTURE D2216								
Percent Moisture	20.9	0		wt%	R349416	1	08/09/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1706244

Date: 6/28/17 Page 1 of 1

NY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE 310185 Atlanta GA 30308</u>			ANALYSIS REQUESTED <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EPA6020 AS Du</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EPA6020 AS Du, Bc</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs Totals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH - DRO</div> </div>								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers				
770-296-9648 ED BY: <u>Forrest Howard</u>		FAX: <u>Forrest.howard@aesatlanta.com</u> SIGNATURE:			PRESERVATION (See codes)								REMARKS						
SAMPLE ID		SAMPLED		Grab	Composite	Matrix (See codes)	T	I	H										
	DATE	TIME																	
<u>EAPCS-16</u>	<u>6/28/17</u>	<u>1105</u>	<u>X</u>			<u>SO</u>		<u>X</u>											<u>1</u>
<u>EAPCS-17</u>	<u>6/28/17</u>	<u>1110</u>	<u>X</u>			<u>SO</u>		<u>X</u>											<u>1</u>
<u>EAPCS-18</u>	<u>6/28/17</u>	<u>1355</u>	<u>X</u>			<u>SO</u>		<u>X</u>											<u>1</u>
<u>CS-15D</u>	<u>6/28/17</u>	<u>1340</u>	<u>X</u>			<u>SO</u>	<u>X</u>		<u>X</u>										<u>1</u>
<u>SWCS-15D-E-1.5</u>	<u>6/28/17</u>	<u>1341</u>	<u>X</u>			<u>SO</u>	<u>X</u>		<u>X</u>										<u>1</u>
<u>SWCS-15D-W-1.5</u>	<u>6/28/17</u>	<u>1342</u>	<u>X</u>			<u>SO</u>	<u>X</u>		<u>X</u>										<u>1</u>
<u>PCS-01</u>	<u>6/28/17</u>	<u>1347^{ESS}</u>	<u>X</u>			<u>SO</u>				<u>X</u>									
DISPATCHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION								RECEIPT					
		<u>6/28/17 1800</u>	1: <u>To FedEx</u>			PROJECT NAME: <u>Plant Kraft Execution</u>								Total # of Containers <u>6</u>					
			2: <u>Forrest Howard 6/29/17 10:25AM</u>			PROJECT #: _____								Turnaround Time Request					
			3: _____			SITE ADDRESS: <u>Plant Kraft, Port Wentworth GA</u>								<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other _____					
INSTRUCTIONS/COMMENTS: <u>Report to:</u> <u>Forrest Howard</u> <u>Stephen Willson</u> <u>Trent Cochran</u> <u>Lee Miller</u> <u>Nick Heuman</u>			SHIPMENT METHOD			INVOICE TO: <u>GPC Environmental's Affairs</u> (IF DIFFERENT FROM ABOVE)								STATE PROGRAM (if any): _____					
			OUT / / VIA: IN / / VIA: <input type="checkbox"/> CLIENT <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER <input type="checkbox"/> GREYHOUND <input type="checkbox"/> OTHER _____			SEND REPORT TO: <u>in comments</u> QUOTE #: _____ PO#: _____ <u>sent w/ AES FedEx account</u>								B-mail? Y/N; Fax? Y/N DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV					

ES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

ES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

X CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
 I/VATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: SWCS-15D-E-1.5
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 1:41:00 PM
Lab ID: 1706R44-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYCHLORINATED BIPHENYLS SW8082A					(SW3550C)			
Aroclor 1016	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1221	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1232	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1242	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1248	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1254	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Aroclor 1260	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:28	SH
Surr: Decachlorobiphenyl	88.5	43.2-138		%REC	244834	1	06/29/2017 17:28	SH
Surr: Tetrachloro-m-xylene	99.3	46-128		%REC	244834	1	06/29/2017 17:28	SH
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.47		mg/Kg-dry	244835	1	06/29/2017 18:32	JR
Barium	42.0	0.50		mg/Kg-dry	244835	1	06/29/2017 18:32	JR
PERCENT MOISTURE D2216								
Percent Moisture	23.6	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



ANALYTICAL ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

Work Order: 1706244

3080 Presidential Drive Atlanta GA 30340-3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 6/28/17 Page 1 of 1

NY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE 310185 Atlanta GA 30308</u>			ANALYSIS REQUESTED <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EPA6020 AS Du</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EPA6020 AS Du, Bc</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs Totals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH - DRO</div> </div>						Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																										
770-296-9648		FAX: <u>Forrest.howard@aesatlanta.com</u>			PRESERVATION (See codes)						REMARKS																												
ED BY: <u>Forrest Howard</u>		SIGNATURE:											<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">SAMPLED</th> <th rowspan="2">Grab</th> <th rowspan="2">Composite</th> <th rowspan="2">Matrix (See codes)</th> <th>T</th> <th>I</th> <th>H</th> <th colspan="6"></th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </table>						SAMPLED		Grab	Composite	Matrix (See codes)	T	I	H							DATE	TIME					
SAMPLED		Grab	Composite	Matrix (See codes)	T	I	H																																
DATE	TIME																																						
SAMPLE ID																																							
<u>EAPCS-16</u>		<u>6/28/17</u>	<u>1105</u>	<u>X</u>				<u>SO</u>										1																					
<u>EAPCS-17</u>		<u>6/28/17</u>	<u>1110</u>	<u>X</u>				<u>SO</u>										1																					
<u>EAPCS-18</u>		<u>6/28/17</u>	<u>1355</u>	<u>X</u>				<u>SO</u>										1																					
<u>CS-15D</u>		<u>6/28/17</u>	<u>1340</u>	<u>X</u>				<u>SO</u>	<u>X</u>		<u>X</u>							1																					
<u>SWCS-15D-E-1.5</u>		<u>6/28/17</u>	<u>1341</u>	<u>X</u>				<u>SO</u>	<u>X</u>		<u>X</u>							1																					
<u>SWCS-15D-W-1.5</u>		<u>6/28/17</u>	<u>1342</u>	<u>X</u>				<u>SO</u>	<u>X</u>		<u>X</u>							1																					
<u>PCS-01</u>		<u>6/28/17</u>	<u>1347^{ESS}</u>	<u>X</u>				<u>SO</u>				<u>X</u>																											
DISPATCHED BY:		DATE/TIME: <u>6/28/17 1800</u>	RECEIVED BY: <u>To FedEx</u>			PROJECT INFORMATION						RECEIPT																											
			1: <u>To FedEx</u>			PROJECT NAME: <u>Plant Kraft Execution</u>						Total # of Containers: <u>6</u>																											
			2: <u>Forrest Howard 6/29/17 10:25AM</u>			PROJECT #:						Turnaround Time Request <input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other																											
			3:			SITE ADDRESS: <u>Plant Kraft, Port Wentworth GA</u>						STATE PROGRAM (if any):																											
INSTRUCTIONS/COMMENTS: <u>Report to:</u> <u>Forrest Howard</u> <u>Stephen Willson</u> <u>Trent Cochran</u> <u>Lee Miller</u> <u>Nick Heuman</u>		SHIPMENT METHOD OUT / / VIA: IN / / VIA: <input type="checkbox"/> CLIENT <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER <input type="checkbox"/> GREYHOUND <input type="checkbox"/> OTHER			SEND REPORT TO: <u>in comments</u>						B-mail? Y/N; Fax? Y/N																												
					INVOICE TO: <u>GPC Environmental's Affairs</u> (IF DIFFERENT FROM ABOVE)						DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV																												
					QUOTE #: PO#:																																		

ES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

ES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

X CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
 I/VATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 3-Jul-17

Client: Georgia Power Company	Client Sample ID: SWCS-15D-W-1.5
Project Name: Plant Kraft Excavation	Collection Date: 6/28/2017 1:42:00 PM
Lab ID: 1706R44-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYCHLORINATED BIPHENYLS SW8082A					(SW3550C)			
Aroclor 1016	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1221	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1232	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1242	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1248	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1254	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Aroclor 1260	BRL	44		ug/Kg-dry	244834	1	06/29/2017 17:58	SH
Surr: Decachlorobiphenyl	91.6	43.2-138		%REC	244834	1	06/29/2017 17:58	SH
Surr: Tetrachloro-m-xylene	91.4	46-128		%REC	244834	1	06/29/2017 17:58	SH
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.44		mg/Kg-dry	244835	1	06/29/2017 18:38	JR
Barium	185	0.50		mg/Kg-dry	244835	1	06/29/2017 18:38	JR
PERCENT MOISTURE D2216								
Percent Moisture	23.6	0		wt%	R346679	1	06/30/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 11, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708A51

Analytical Environmental Services, Inc. received 10 samples on 8/10/2017 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1708A51

Case Narrative

Per Forrest Howard via phone 8/10/2017 11:35am, same day turnaround was required for samples "SRCS-01" and "SRCS-02."

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: SRCS-02
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 9:18:00 AM
Lab ID: 1708A51-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	98.9	6.78		mg/Kg-dry	246708	1	08/10/2017 15:29	JR
Barium	15.2	0.45		mg/Kg-dry	246708	1	08/10/2017 15:29	JR
PERCENT MOISTURE D2216								
Percent Moisture	1.70	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-02
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 2:35:00 PM
Lab ID: 1708A51-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.42		mg/Kg-dry	246708	1	08/10/2017 16:44	JR
Barium	22.3	0.50		mg/Kg-dry	246708	1	08/10/2017 16:44	JR
PERCENT MOISTURE D2216								
Percent Moisture	11.3	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-04
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 2:40:00 PM
Lab ID: 1708A51-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.67		mg/Kg-dry	246708	1	08/10/2017 16:57	JR
Barium	120	0.44		mg/Kg-dry	246708	1	08/10/2017 16:57	JR
PERCENT MOISTURE D2216								
Percent Moisture	13.6	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-05
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 2:42:00 PM
Lab ID: 1708A51-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.02		mg/Kg-dry	246708	1	08/10/2017 17:03	JR
Barium	69.6	0.54		mg/Kg-dry	246708	1	08/10/2017 17:03	JR
PERCENT MOISTURE D2216								
Percent Moisture	17.0	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-07
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 3:05:00 PM
Lab ID: 1708A51-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.76		mg/Kg-dry	246708	1	08/10/2017 17:09	JR
Barium	22.2	0.52		mg/Kg-dry	246708	1	08/10/2017 17:09	JR
PERCENT MOISTURE D2216								
Percent Moisture	15.0	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1708A51

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.5 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TR 8/10/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: 40ZWMGTLS

I certify that I have completed sections 16-27 (dated initials). BB 8/10/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BB 8/10/17

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708A51

ANALYTICAL QC SUMMARY REPORT

BatchID: 246708

Sample ID: MB-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678588							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678589							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4688 1500 5000 93.8 80 120
 Barium 5135 500 5000 103 80 120

Sample ID: 1708897-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678591							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8.06 5.371 1.234 74.6 75 125 S
 Barium 39.30 0.54 5.371 30.05 172 75 125 S

Sample ID: 1708897-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678592							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8.05 5.370 1.234 71.1 75 125 5.243 0 20 S
 Barium 41.82 0.54 5.370 30.05 219 75 125 39.30 6.23 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 15, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708D24

Analytical Environmental Services, Inc. received 17 samples on August 12, 2017 10:15 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-10
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:00:00 AM
Lab ID: 1708D24-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.12		mg/Kg-dry	246880	10	08/14/2017 17:32	JR
Barium	29.3	0.48		mg/Kg-dry	246880	10	08/14/2017 17:32	JR
PERCENT MOISTURE D2216								
Percent Moisture	8.83	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-12
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:10:00 AM
Lab ID: 1708D24-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	9.02		mg/Kg-dry	246880	10	08/14/2017 18:10	JR
Barium	37.8	6.01		mg/Kg-dry	246880	10	08/14/2017 18:10	JR
PERCENT MOISTURE D2216								
Percent Moisture	37.3	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-13
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:36:00 AM
Lab ID: 1708D24-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	9.71		mg/Kg-dry	246880	10	08/14/2017 18:16	JR
Barium	60.5	6.47		mg/Kg-dry	246880	10	08/14/2017 18:16	JR
PERCENT MOISTURE D2216								
Percent Moisture	22.9	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-14
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:45:00 AM
Lab ID: 1708D24-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.99		mg/Kg-dry	246880	10	08/14/2017 18:48	JR
Barium	45.1	5.99		mg/Kg-dry	246880	10	08/14/2017 18:48	JR
PERCENT MOISTURE D2216								
Percent Moisture	17.4	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-15
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:50:00 AM
Lab ID: 1708D24-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.52		mg/Kg-dry	246880	10	08/14/2017 18:54	JR
Barium	69.0	5.68		mg/Kg-dry	246880	10	08/14/2017 18:54	JR
PERCENT MOISTURE D2216								
Percent Moisture	21.0	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-16
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:58:00 AM
Lab ID: 1708D24-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.50		mg/Kg-dry	246880	10	08/14/2017 19:01	JR
Barium	39.8	5.00		mg/Kg-dry	246880	10	08/14/2017 19:01	JR
PERCENT MOISTURE D2216								
Percent Moisture	12.8	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-17
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 9:00:00 AM
Lab ID: 1708D24-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.81		mg/Kg-dry	246880	10	08/14/2017 19:07	JR
Barium	41.7	5.88		mg/Kg-dry	246880	10	08/14/2017 19:07	JR
PERCENT MOISTURE D2216								
Percent Moisture	15.0	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-18
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 9:05:00 AM
Lab ID: 1708D24-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.73		mg/Kg-dry	246880	10	08/14/2017 19:13	JR
Barium	32.0	4.49		mg/Kg-dry	246880	10	08/14/2017 19:13	JR
PERCENT MOISTURE D2216								
Percent Moisture	26.1	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-19
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 9:15:00 AM
Lab ID: 1708D24-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.71		mg/Kg-dry	246880	10	08/14/2017 19:20	JR
Barium	67.7	5.14		mg/Kg-dry	246880	10	08/14/2017 19:20	JR
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-20
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 9:24:00 AM
Lab ID: 1708D24-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.53		mg/Kg-dry	246880	10	08/14/2017 19:26	JR
Barium	36.9	5.68		mg/Kg-dry	246880	10	08/14/2017 19:26	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-21
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 10:40:00 AM
Lab ID: 1708D24-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.88		mg/Kg-dry	246880	10	08/14/2017 19:32	JR
Barium	61.0	4.59		mg/Kg-dry	246880	10	08/14/2017 19:32	JR
PERCENT MOISTURE D2216								
Percent Moisture	17.0	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-22
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 10:47:00 AM
Lab ID: 1708D24-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.10		mg/Kg-dry	246880	10	08/14/2017 19:38	JR
Barium	36.4	5.40		mg/Kg-dry	246880	10	08/14/2017 19:38	JR
PERCENT MOISTURE D2216								
Percent Moisture	12.9	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-23
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 10:57:00 AM
Lab ID: 1708D24-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.05		mg/Kg-dry	246880	10	08/14/2017 19:45	JR
Barium	44.1	5.37		mg/Kg-dry	246880	10	08/14/2017 19:45	JR
PERCENT MOISTURE D2216								
Percent Moisture	12.6	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-24
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 11:05:00 AM
Lab ID: 1708D24-015	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	7.10	6.73		mg/Kg-dry	246880	10	08/14/2017 20:16	JR
Barium	94.0	4.48		mg/Kg-dry	246880	10	08/14/2017 20:16	JR
PERCENT MOISTURE D2216								
Percent Moisture	24.8	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-25
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 11:10:00 AM
Lab ID: 1708D24-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.89		mg/Kg-dry	246880	10	08/14/2017 20:23	JR
Barium	52.7	5.26		mg/Kg-dry	246880	10	08/14/2017 20:23	JR
PERCENT MOISTURE D2216								
Percent Moisture	17.0	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-26
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 11:15:00 AM
Lab ID: 1708D24-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.72		mg/Kg-dry	246880	10	08/14/2017 20:29	JR
Barium	125	5.82		mg/Kg-dry	246880	10	08/14/2017 20:29	JR
PERCENT MOISTURE D2216								
Percent Moisture	21.0	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **GEORGIA POWER**

AES Work Order Number: **1708D24**

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). BB 8/12/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). BB 8/12/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BB 8/12/17



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 246880

Sample ID: MB-246880	Client ID:	Units: ug/Kg	Prep Date: 08/14/2017	Run No: 349770							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246880	Analysis Date: 08/14/2017	Seq No: 7686094							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246880	Client ID:	Units: ug/Kg	Prep Date: 08/14/2017	Run No: 349770							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246880	Analysis Date: 08/14/2017	Seq No: 7686095							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4878 1500 5000 97.6 80 120
 Barium 5098 500 5000 102 80 120

Sample ID: 1708D24-001AMS	Client ID: LFCS-10	Units: mg/Kg-dry	Prep Date: 08/14/2017	Run No: 349770							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246880	Analysis Date: 08/14/2017	Seq No: 7686097							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 8.003 7.14 4.758 2.763 110 75 125
 Barium 27.76 0.48 4.758 29.26 -31.6 75 125 S

Sample ID: 1708D24-001AMSD	Client ID: LFCS-10	Units: mg/Kg-dry	Prep Date: 08/14/2017	Run No: 349770							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246880	Analysis Date: 08/14/2017	Seq No: 7686098							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.425 7.13 4.756 2.763 98.0 75 125 8.003 7.49 20
 Barium 29.73 0.48 4.756 29.26 9.71 75 125 27.76 6.84 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 15, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708D24

Analytical Environmental Services, Inc. received 17 samples on August 12, 2017 10:15 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-10
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:00:00 AM
Lab ID: 1708D24-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.12		mg/Kg-dry	246880	10	08/14/2017 17:32	JR
Barium	29.3	0.48		mg/Kg-dry	246880	10	08/14/2017 17:32	JR
PERCENT MOISTURE D2216								
Percent Moisture	8.83	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-11
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:05:00 AM
Lab ID: 1708D24-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.64		mg/Kg-dry	246880	10	08/14/2017 18:04	JR
Barium	40.5	5.76		mg/Kg-dry	246880	10	08/14/2017 18:04	JR
PERCENT MOISTURE D2216								
Percent Moisture	25.9	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-12
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:10:00 AM
Lab ID: 1708D24-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	9.02		mg/Kg-dry	246880	10	08/14/2017 18:10	JR
Barium	37.8	6.01		mg/Kg-dry	246880	10	08/14/2017 18:10	JR
PERCENT MOISTURE D2216								
Percent Moisture	37.3	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-13
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:36:00 AM
Lab ID: 1708D24-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	9.71		mg/Kg-dry	246880	10	08/14/2017 18:16	JR
Barium	60.5	6.47		mg/Kg-dry	246880	10	08/14/2017 18:16	JR
PERCENT MOISTURE D2216								
Percent Moisture	22.9	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-14
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:45:00 AM
Lab ID: 1708D24-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.99		mg/Kg-dry	246880	10	08/14/2017 18:48	JR
Barium	45.1	5.99		mg/Kg-dry	246880	10	08/14/2017 18:48	JR
PERCENT MOISTURE D2216								
Percent Moisture	17.4	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-15
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:50:00 AM
Lab ID: 1708D24-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.52		mg/Kg-dry	246880	10	08/14/2017 18:54	JR
Barium	69.0	5.68		mg/Kg-dry	246880	10	08/14/2017 18:54	JR
PERCENT MOISTURE D2216								
Percent Moisture	21.0	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-16
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 8:58:00 AM
Lab ID: 1708D24-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.50		mg/Kg-dry	246880	10	08/14/2017 19:01	JR
Barium	39.8	5.00		mg/Kg-dry	246880	10	08/14/2017 19:01	JR
PERCENT MOISTURE D2216								
Percent Moisture	12.8	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-17
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 9:00:00 AM
Lab ID: 1708D24-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.81		mg/Kg-dry	246880	10	08/14/2017 19:07	JR
Barium	41.7	5.88		mg/Kg-dry	246880	10	08/14/2017 19:07	JR
PERCENT MOISTURE D2216								
Percent Moisture	15.0	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-18
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 9:05:00 AM
Lab ID: 1708D24-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.73		mg/Kg-dry	246880	10	08/14/2017 19:13	JR
Barium	32.0	4.49		mg/Kg-dry	246880	10	08/14/2017 19:13	JR
PERCENT MOISTURE D2216								
Percent Moisture	26.1	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-19
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 9:15:00 AM
Lab ID: 1708D24-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.71		mg/Kg-dry	246880	10	08/14/2017 19:20	JR
Barium	67.7	5.14		mg/Kg-dry	246880	10	08/14/2017 19:20	JR
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-20
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 9:24:00 AM
Lab ID: 1708D24-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.53		mg/Kg-dry	246880	10	08/14/2017 19:26	JR
Barium	36.9	5.68		mg/Kg-dry	246880	10	08/14/2017 19:26	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-21
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 10:40:00 AM
Lab ID: 1708D24-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.88		mg/Kg-dry	246880	10	08/14/2017 19:32	JR
Barium	61.0	4.59		mg/Kg-dry	246880	10	08/14/2017 19:32	JR
PERCENT MOISTURE D2216								
Percent Moisture	17.0	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-22
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 10:47:00 AM
Lab ID: 1708D24-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.10		mg/Kg-dry	246880	10	08/14/2017 19:38	JR
Barium	36.4	5.40		mg/Kg-dry	246880	10	08/14/2017 19:38	JR
PERCENT MOISTURE D2216								
Percent Moisture	12.9	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-23
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 10:57:00 AM
Lab ID: 1708D24-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.05		mg/Kg-dry	246880	10	08/14/2017 19:45	JR
Barium	44.1	5.37		mg/Kg-dry	246880	10	08/14/2017 19:45	JR
PERCENT MOISTURE D2216								
Percent Moisture	12.6	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-24
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 11:05:00 AM
Lab ID: 1708D24-015	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	7.10	6.73		mg/Kg-dry	246880	10	08/14/2017 20:16	JR
Barium	94.0	4.48		mg/Kg-dry	246880	10	08/14/2017 20:16	JR
PERCENT MOISTURE D2216								
Percent Moisture	24.8	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-25
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 11:10:00 AM
Lab ID: 1708D24-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.89		mg/Kg-dry	246880	10	08/14/2017 20:23	JR
Barium	52.7	5.26		mg/Kg-dry	246880	10	08/14/2017 20:23	JR
PERCENT MOISTURE D2216								
Percent Moisture	17.0	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-26
Project Name: Plant Kraft Excavation	Collection Date: 8/11/2017 11:15:00 AM
Lab ID: 1708D24-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.72		mg/Kg-dry	246880	10	08/14/2017 20:29	JR
Barium	125	5.82		mg/Kg-dry	246880	10	08/14/2017 20:29	JR
PERCENT MOISTURE D2216								
Percent Moisture	21.0	0		wt%	R349824	1	08/15/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **GEORGIA POWER**

AES Work Order Number: **1708D24**

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). BB 8/12/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). BB 8/12/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BB 8/12/17



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 246880

Sample ID: MB-246880	Client ID:	Units: ug/Kg	Prep Date: 08/14/2017	Run No: 349770							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246880	Analysis Date: 08/14/2017	Seq No: 7686094							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246880	Client ID:	Units: ug/Kg	Prep Date: 08/14/2017	Run No: 349770							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246880	Analysis Date: 08/14/2017	Seq No: 7686095							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4878 1500 5000 97.6 80 120
 Barium 5098 500 5000 102 80 120

Sample ID: 1708D24-001AMS	Client ID: LFCS-10	Units: mg/Kg-dry	Prep Date: 08/14/2017	Run No: 349770							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246880	Analysis Date: 08/14/2017	Seq No: 7686097							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 8.003 7.14 4.758 2.763 110 75 125
 Barium 27.76 0.48 4.758 29.26 -31.6 75 125 S

Sample ID: 1708D24-001AMSD	Client ID: LFCS-10	Units: mg/Kg-dry	Prep Date: 08/14/2017	Run No: 349770							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246880	Analysis Date: 08/14/2017	Seq No: 7686098							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.425 7.13 4.756 2.763 98.0 75 125 8.003 7.49 20
 Barium 29.73 0.48 4.756 29.26 9.71 75 125 27.76 6.84 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 31, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708R46

Analytical Environmental Services, Inc. received 4 samples on 8/30/2017 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions for Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Client: Georgia Power Company
Project: Plant Kraft Excavation
Lab ID: 1708R46

Case Narrative

Sample Receiving Nonconformance:

Due to water in the cooler, Sample ID's were barely visible on the Chain of Custody for all samples, and collection date and time was not present for sample -001. Samples ID's and collection date/time were verified by Forrest Howard via email on 8/30/2017.

Analytical Environmental Services, Inc

Date: 31-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-28
Project Name: Plant Kraft Excavation	Collection Date: 8/28/2017 1:25:00 PM
Lab ID: 1708R46-002	Matrix: Solid

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.89		mg/Kg-dry	247500	10	08/30/2017 21:10	JR
Barium	36.3	0.45		mg/Kg-dry	247500	10	08/30/2017 21:10	JR
PERCENT MOISTURE D2216								
Percent Moisture	9.40	0		wt%	R351080	1	08/31/2017 16:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Aug-17

Client: Georgia Power Company	Client Sample ID: RRCS-19
Project Name: Plant Kraft Excavation	Collection Date: 8/29/2017 1:20:00 PM
Lab ID: 1708R46-003	Matrix: Solid

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.31		mg/Kg-dry	247500	10	08/30/2017 21:16	JR
Barium	5.13	0.49		mg/Kg-dry	247500	10	08/30/2017 21:16	JR
PERCENT MOISTURE D2216								
Percent Moisture	2.88	0		wt%	R351080	1	08/31/2017 16:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Aug-17

Client: Georgia Power Company	Client Sample ID: RRCS-20
Project Name: Plant Kraft Excavation	Collection Date: 8/29/2017 1:22:00 PM
Lab ID: 1708R46-004	Matrix: Solid

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.50		mg/Kg-dry	247500	10	08/30/2017 21:23	JR
Barium	13.9	0.49		mg/Kg-dry	247500	10	08/30/2017 21:23	JR
PERCENT MOISTURE D2216								
Percent Moisture	6.07	0		wt%	R351080	1	08/31/2017 16:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1708R46

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.4 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 8/30/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input checked="" type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJ 8/30/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). Page 8 of 9



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708R46

ANALYTICAL QC SUMMARY REPORT

BatchID: 247500

Sample ID: MB-247500	Client ID:	Units: ug/Kg	Prep Date: 08/29/2017	Run No: 350962							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 247500	Analysis Date: 08/30/2017	Seq No: 7714353							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-247500	Client ID:	Units: ug/Kg	Prep Date: 08/29/2017	Run No: 350962							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 247500	Analysis Date: 08/30/2017	Seq No: 7714354							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4556 750 5000 91.1 80 120
 Barium 4719 500 5000 94.4 80 120

Sample ID: 1708M24-008AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 08/29/2017	Run No: 350962							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 247500	Analysis Date: 08/30/2017	Seq No: 7714358							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 12920 11700 9720 3071 101 75 125
 Barium 27700 19400 9720 16710 113 75 125

Sample ID: 1708M24-008AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 08/29/2017	Run No: 350962							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 247500	Analysis Date: 08/30/2017	Seq No: 7714363							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 12580 11500 9583 3071 99.2 75 125 12920 2.72 20
 Barium 29200 19200 9583 16710 130 75 125 27700 5.29 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 21, 2018

Lea Millet
Georgia Power Company

241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1805J70

Analytical Environmental Services, Inc. received 22 samples on 5/18/2018 10:00:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 21-May-18

Client: Georgia Power Company	Client Sample ID: PLCS-3SW
Project Name: Plant Kraft Excavation	Collection Date: 5/14/2018 9:58:00 AM
Lab ID: 1805J70-003	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Metals by ICP/MS SW6020B									
Arsenic	BRL		12.4	7.69	mg/Kg-dry	260958	50	05/18/2018 19:45	DP
Barium	32.9		1.31	0.51	mg/Kg-dry	260958	50	05/18/2018 19:45	DP
PERCENT MOISTURE D2216									
Percent Moisture	24.0		0	0	wt%	R370716	1	05/18/2018 16:40	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 21-May-18

Client: Georgia Power Company	Client Sample ID: PLCS-4
Project Name: Plant Kraft Excavation	Collection Date: 5/15/2018 9:16:00 AM
Lab ID: 1805J70-004	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Metals by ICP/MS SW6020B									
Arsenic	BRL		8.92	7.37	mg/Kg-dry	260958	50	05/18/2018 19:47	DP
Barium	41.5		0.944	0.52	mg/Kg-dry	260958	50	05/18/2018 19:47	DP
PERCENT MOISTURE D2216									
Percent Moisture	16.1		0	0	wt%	R370716	1	05/18/2018 16:40	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 21-May-18

Client: Georgia Power Company	Client Sample ID: PLCS-5SW
Project Name: Plant Kraft Excavation	Collection Date: 5/15/2018 9:18:00 AM
Lab ID: 1805J70-005	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Metals by ICP/MS SW6020B									
Arsenic	BRL		10.3	7.44	mg/Kg-dry	260958	50	05/18/2018 19:31	DP
Barium	55.8		1.09	0.49	mg/Kg-dry	260958	50	05/18/2018 19:31	DP
PERCENT MOISTURE D2216									
Percent Moisture	17.8		0	0	wt%	R370716	1	05/18/2018 16:40	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 21-May-18

Client: Georgia Power Company	Client Sample ID: PLCS-10
Project Name: Plant Kraft Excavation	Collection Date: 5/15/2018 2:40:00 PM
Lab ID: 1805J70-010	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Metals by ICP/MS SW6020B									
Arsenic	BRL		8.77	7.25	mg/Kg-dry	260958	50	05/18/2018 20:03	DP
Barium	44.4		0.928	0.51	mg/Kg-dry	260958	50	05/18/2018 20:03	DP
PERCENT MOISTURE D2216									
Percent Moisture	22.1		0	0	wt%	R370716	1	05/18/2018 16:40	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 21-May-18

Client: Georgia Power Company	Client Sample ID: PLCS-17
Project Name: Plant Kraft Excavation	Collection Date: 5/16/2018 1:26:00 PM
Lab ID: 1805J70-017	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Metals by ICP/MS SW6020B									
Arsenic	BRL		12.2	7.55	mg/Kg-dry	260958	50	05/18/2018 20:23	DP
Barium	7.74		1.29	0.50	mg/Kg-dry	260958	50	05/18/2018 20:23	DP
PERCENT MOISTURE D2216									
Percent Moisture	10.1		0	0	wt%	R370716	1	05/18/2018 16:40	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 21-May-18

Client: Georgia Power Company	Client Sample ID: PLCS-19
Project Name: Plant Kraft Excavation	Collection Date: 5/16/2018 1:42:00 PM
Lab ID: 1805J70-019	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Metals by ICP/MS SW6020B									
Arsenic	BRL		10.8	7.16	mg/Kg-dry	260958	50	05/18/2018 20:26	DP
Barium	11.4		1.15	0.49	mg/Kg-dry	260958	50	05/18/2018 20:26	DP
PERCENT MOISTURE D2216									
Percent Moisture	15.5		0	0	wt%	R370716	1	05/18/2018 16:40	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1805J70

ANALYTICAL QC SUMMARY REPORT

BatchID: 260958

Sample ID: MB-260958	Client ID:	Units: ug/Kg	Prep Date: 05/18/2018	Run No: 370732							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 260958	Analysis Date: 05/18/2018	Seq No: 8220507							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-260958	Client ID:	Units: ug/Kg	Prep Date: 05/18/2018	Run No: 370732							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 260958	Analysis Date: 05/18/2018	Seq No: 8220508							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4723 4500 5000 94.5 80 120
 Barium 4879 500 5000 97.6 80 120

Sample ID: 1805J70-005AMS	Client ID: PLCS-5SW	Units: mg/Kg-dry	Prep Date: 05/18/2018	Run No: 370732							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 260958	Analysis Date: 05/18/2018	Seq No: 8220512							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.45 4.260 0 75 125 S
 Barium 49.85 0.49 4.260 55.85 -141 75 125 S

Sample ID: 1805J70-005AMSD	Client ID: PLCS-5SW	Units: mg/Kg-dry	Prep Date: 05/18/2018	Run No: 370732							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 260958	Analysis Date: 05/18/2018	Seq No: 8220513							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.47 4.269 0 75 125 0 0 20 S
 Barium 51.47 0.49 4.269 55.85 -103 75 125 49.85 3.21 20 S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1805J70

ANALYTICAL QC SUMMARY REPORT

BatchID: 260959

Sample ID: MB-260959	Client ID:	Units: ug/Kg	Prep Date: 05/18/2018	Run No: 370731							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 260959	Analysis Date: 05/18/2018	Seq No: 8220473							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-260959	Client ID:	Units: ug/Kg	Prep Date: 05/18/2018	Run No: 370731							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 260959	Analysis Date: 05/18/2018	Seq No: 8220474							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4888 4000 5000 97.8 80 120
 Barium 4658 500 5000 93.2 80 120

Sample ID: 1805J70-021AMS	Client ID: PLCS-21	Units: mg/Kg-dry	Prep Date: 05/18/2018	Run No: 370731							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 260959	Analysis Date: 05/18/2018	Seq No: 8220476							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.321 7.31 3.656 200 75 125 S
 Barium 21.13 18.3 3.656 16.08 138 75 125 S

Sample ID: 1805J70-021AMSD	Client ID: PLCS-21	Units: mg/Kg-dry	Prep Date: 05/18/2018	Run No: 370731							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 260959	Analysis Date: 05/18/2018	Seq No: 8220477							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.723 7.30 3.652 211 75 125 7.321 5.35 20 S
 Barium 22.19 18.3 3.652 16.08 167 75 125 21.13 4.92 20 S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 18, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708H91

Analytical Environmental Services, Inc. received 1 samples on 8/17/2017 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 18-Aug-17

Client: Georgia Power Company	Client Sample ID: RRCS-11A
Project Name: Plant Kraft Excavation	Collection Date: 8/16/2017 3:00:00 PM
Lab ID: 1708H91-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B								
					(SW3050B)			
Arsenic	BRL	5.13		mg/Kg-dry	247106	10	08/18/2017 14:51	JR
PERCENT MOISTURE D2216								
Percent Moisture	20.4	0		wt%	R350150	1	08/18/2017 17:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1708H91

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.1 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AJ 8/17/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJ 8/17/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AJ 8/17/17



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708H91

ANALYTICAL QC SUMMARY REPORT

BatchID: 247106

Sample ID: MB-247106	Client ID:	Units: ug/Kg	Prep Date: 08/17/2017	Run No: 350126							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 247106	Analysis Date: 08/18/2017	Seq No: 7693552							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500

Sample ID: LCS-247106	Client ID:	Units: ug/Kg	Prep Date: 08/17/2017	Run No: 350126							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 247106	Analysis Date: 08/18/2017	Seq No: 7693553							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4763 1500 5000 95.3 80 120

Sample ID: 1708G81-001BMS	Client ID:	Units: ug/Kg	Prep Date: 08/17/2017	Run No: 350126							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 247106	Analysis Date: 08/18/2017	Seq No: 7693557							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 13300 4420 4760 95.8 75 125

Sample ID: 1708G81-001BMSD	Client ID:	Units: ug/Kg	Prep Date: 08/17/2017	Run No: 350126							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 247106	Analysis Date: 08/18/2017	Seq No: 7693558							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 13300 4421 4760 87.7 75 125 8995 0 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 21, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708J35

Analytical Environmental Services, Inc. received 2 samples on 8/18/2017 10:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 21-Aug-17

Client: Georgia Power Company	Client Sample ID: RRCS-18
Project Name: Plant Kraft Excavation	Collection Date: 8/17/2017 11:58:00 AM
Lab ID: 1708J35-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.17		mg/Kg-dry	247180	10	08/20/2017 20:26	JR
Barium	26.4	4.78		mg/Kg-dry	247180	10	08/20/2017 20:26	JR
PERCENT MOISTURE D2216								
Percent Moisture	8.26	0		wt%	R350233	1	08/21/2017 14:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1708J35

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 3.0 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 8/18/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TD 8/18/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). TD 8/18/17

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708J35

ANALYTICAL QC SUMMARY REPORT

BatchID: 247180

Sample ID: MB-247180	Client ID:	Units: ug/Kg	Prep Date: 08/18/2017	Run No: 350182							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 247180	Analysis Date: 08/20/2017	Seq No: 7695314							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-247180	Client ID:	Units: ug/Kg	Prep Date: 08/18/2017	Run No: 350182							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 247180	Analysis Date: 08/20/2017	Seq No: 7695315							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4278 750 5000 85.6 80 120
 Barium 4649 500 5000 93.0 80 120

Sample ID: 1708J35-001AMS	Client ID: RRCS-17	Units: mg/Kg-dry	Prep Date: 08/18/2017	Run No: 350182							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 247180	Analysis Date: 08/20/2017	Seq No: 7695317							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.867 4.49 4.488 1.919 88.0 75 125
 Barium 14.77 4.49 4.488 11.18 80.0 75 125

Sample ID: 1708J35-001AMSD	Client ID: RRCS-17	Units: mg/Kg-dry	Prep Date: 08/18/2017	Run No: 350182							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 247180	Analysis Date: 08/20/2017	Seq No: 7695318							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.931 4.48 4.484 1.919 89.5 75 125 5.867 1.08 20
 Barium 14.57 4.48 4.484 11.18 75.5 75 125 14.77 1.40 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 31, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708R46

Analytical Environmental Services, Inc. received 4 samples on 8/30/2017 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions for Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Client: Georgia Power Company
Project: Plant Kraft Excavation
Lab ID: 1708R46

Case Narrative

Sample Receiving Nonconformance:

Due to water in the cooler, Sample ID's were barely visible on the Chain of Custody for all samples, and collection date and time was not present for sample -001. Samples ID's and collection date/time were verified by Forrest Howard via email on 8/30/2017.

Analytical Environmental Services, Inc

Date: 31-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-28
Project Name: Plant Kraft Excavation	Collection Date: 8/28/2017 1:25:00 PM
Lab ID: 1708R46-002	Matrix: Solid

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.89		mg/Kg-dry	247500	10	08/30/2017 21:10	JR
Barium	36.3	0.45		mg/Kg-dry	247500	10	08/30/2017 21:10	JR
PERCENT MOISTURE D2216								
Percent Moisture	9.40	0		wt%	R351080	1	08/31/2017 16:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Aug-17

Client: Georgia Power Company	Client Sample ID: RRCS-19
Project Name: Plant Kraft Excavation	Collection Date: 8/29/2017 1:20:00 PM
Lab ID: 1708R46-003	Matrix: Solid

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.31		mg/Kg-dry	247500	10	08/30/2017 21:16	JR
Barium	5.13	0.49		mg/Kg-dry	247500	10	08/30/2017 21:16	JR
PERCENT MOISTURE D2216								
Percent Moisture	2.88	0		wt%	R351080	1	08/31/2017 16:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Aug-17

Client: Georgia Power Company	Client Sample ID: RRCS-20
Project Name: Plant Kraft Excavation	Collection Date: 8/29/2017 1:22:00 PM
Lab ID: 1708R46-004	Matrix: Solid

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.50		mg/Kg-dry	247500	10	08/30/2017 21:23	JR
Barium	13.9	0.49		mg/Kg-dry	247500	10	08/30/2017 21:23	JR
PERCENT MOISTURE D2216								
Percent Moisture	6.07	0		wt%	R351080	1	08/31/2017 16:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1708R46

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.4 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 8/30/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input checked="" type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJ 8/30/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). Page 8 of 9



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708R46

ANALYTICAL QC SUMMARY REPORT

BatchID: 247500

Sample ID: MB-247500	Client ID:	Units: ug/Kg	Prep Date: 08/29/2017	Run No: 350962							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 247500	Analysis Date: 08/30/2017	Seq No: 7714353							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-247500	Client ID:	Units: ug/Kg	Prep Date: 08/29/2017	Run No: 350962							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 247500	Analysis Date: 08/30/2017	Seq No: 7714354							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4556 750 5000 91.1 80 120
 Barium 4719 500 5000 94.4 80 120

Sample ID: 1708M24-008AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 08/29/2017	Run No: 350962							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 247500	Analysis Date: 08/30/2017	Seq No: 7714358							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 12920 11700 9720 3071 101 75 125
 Barium 27700 19400 9720 16710 113 75 125

Sample ID: 1708M24-008AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 08/29/2017	Run No: 350962							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 247500	Analysis Date: 08/30/2017	Seq No: 7714363							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 12580 11500 9583 3071 99.2 75 125 12920 2.72 20
 Barium 29200 19200 9583 16710 130 75 125 27700 5.29 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 08, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708641

Analytical Environmental Services, Inc. received 4 samples on 8/5/2017 11:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
 3080 Presidential Drive Atlanta, GA 30340-3704
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1708641

Date: 8/4/17 Page 1 of 1

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE B 10185 Atlanta, GA 30307</u>				ANALYSIS REQUESTED						Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers		
PHONE: <u>770-296-9648</u>		EMAIL: <u>forrest.howard@aesatlanta.com</u>				PRESERVATION (see codes)								REMARKS	
SAMPLED BY: <u>Forrest Howard</u>		SIGNATURE:													
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)						REMARKS	Number of Containers	
		DATE	TIME				I								
1	<u>RRCS-13</u>	<u>8/3/17</u>	<u>0910</u>	<u>X</u>		<u>SO</u>	<u>X</u>								<u>1</u>
2	<u>RRCS-14</u>	<u>8/3/17</u>	<u>0915</u>	<u>X</u>		<u>SO</u>	<u>X</u>								<u>1</u>
3	<u>RRCS-15</u>	<u>8/3/17</u>	<u>0920</u>	<u>X</u>		<u>SO</u>	<u>X</u>								<u>1</u>
4	<u>RRCS-16</u>	<u>8/4/17</u>	<u>1335</u>	<u>X</u>		<u>SO</u>	<u>X</u>								<u>1</u>
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															

RELINQUISHED BY:		DATE/TIME: <u>8/4/17 1700</u>	RECEIVED BY: <u>T. Feiler</u>	DATE/TIME: <u>8/5/17 11:45 AM</u>	PROJECT INFORMATION		RECEIPT	
1.			2.		PROJECT NAME: <u>Plant Kraft Extension</u>	Total # of Containers <u>4</u>		
2.			3.		PROJECT #: _____	Turnaround Time (TAT) Request		
3.					SITE ADDRESS: <u>155 crossgate Rd</u>	<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____		
SPECIAL INSTRUCTIONS/COMMENTS: <u>Report to: Stephen Wilson Forrest Howard Wick Howard Trent Gaultier Lisa Miller</u>			SHIPMENT METHOD		INVOICE TO: <u>GPC Environmental Atoms</u>	STATE PROGRAM (if any): _____		
			OUT: / / VIA: IN: / / VIA: client FedEx UPS US mail courier Greyhound other: _____		(IF DIFFERENT FROM ABOVE)	E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>		
					<u>AES & FedEx account used</u>	DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>		
					QUOTE #: _____	PO#: _____		

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
 Preservative Codes: HH = Hydrochloric acid + ice I = Ice only N = Nitric acid SH = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 8-Aug-17

Client: Georgia Power Company	Client Sample ID: RRCS-14
Project Name: Plant Kraft Excavation	Collection Date: 8/3/2017 9:15:00 AM
Lab ID: 1708641-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.23		mg/Kg-dry	246550	1	08/07/2017 20:08	JR
Barium	11.9	0.55		mg/Kg-dry	246550	1	08/07/2017 20:08	JR
PERCENT MOISTURE D2216								
Percent Moisture	13.4	0		wt%	R349221	1	08/07/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-Aug-17

Client: Georgia Power Company	Client Sample ID: RRCS-15
Project Name: Plant Kraft Excavation	Collection Date: 8/3/2017 9:20:00 AM
Lab ID: 1708641-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.16		mg/Kg-dry	246550	1	08/07/2017 20:14	JR
Barium	26.8	0.54		mg/Kg-dry	246550	1	08/07/2017 20:14	JR
PERCENT MOISTURE D2216								
Percent Moisture	17.1	0		wt%	R349221	1	08/07/2017 13:00	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power

AES Work Order Number: 1708641

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.1 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TR 8/5/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TR 8/5/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). TR 8/5/17



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708641

ANALYTICAL QC SUMMARY REPORT

BatchID: 246550

Sample ID: MB-246550	Client ID:	Units: ug/Kg	Prep Date: 08/07/2017	Run No: 349234							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246550	Analysis Date: 08/07/2017	Seq No: 7673926							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246550	Client ID:	Units: ug/Kg	Prep Date: 08/07/2017	Run No: 349234							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246550	Analysis Date: 08/07/2017	Seq No: 7673927							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4428 1500 5000 88.6 80 120
 Barium 5180 500 5000 104 80 120

Sample ID: 1708641-001AMS	Client ID: RRCS-13	Units: ug/Kg-dry	Prep Date: 08/07/2017	Run No: 349234							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246550	Analysis Date: 08/07/2017	Seq No: 7673931							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8290 5529 4450 49.5 75 125 S
 Barium 19670 553 5529 19400 4.87 75 125 S

Sample ID: 1708641-001AMSD	Client ID: RRCS-13	Units: ug/Kg-dry	Prep Date: 08/07/2017	Run No: 349234							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246550	Analysis Date: 08/07/2017	Seq No: 7673932							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8300 5536 4450 51.0 75 125 7187 0 20 S
 Barium 18150 554 5536 19400 -22.5 75 125 19670 8.02 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 25, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1707184

Analytical Environmental Services, Inc. received 3 samples on 7/22/2017 9:50:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 25-Jul-17

Client: Georgia Power Company	Client Sample ID: RRCS-01
Project Name: Plant Kraft Excavation	Collection Date: 7/21/2017 9:30:00 AM
Lab ID: 1707184-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.12		mg/Kg-dry	245884	5	07/25/2017 03:47	JR
Barium	35.8	2.04		mg/Kg-dry	245884	5	07/25/2017 03:47	JR
PERCENT MOISTURE D2216								
Percent Moisture	6.83	0		wt%	R348170	1	07/24/2017 14:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 25-Jul-17

Client: Georgia Power Company	Client Sample ID: RRCS-03
Project Name: Plant Kraft Excavation	Collection Date: 7/21/2017 9:36:00 AM
Lab ID: 1707I84-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.12		mg/Kg-dry	245884	5	07/25/2017 04:24	JR
Barium	7.83	2.37		mg/Kg-dry	245884	5	07/25/2017 04:24	JR
PERCENT MOISTURE D2216								
Percent Moisture	23.1	0		wt%	R348170	1	07/24/2017 14:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **GA POWER**

AES Work Order Number: **1707184**

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 3.1 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). BB 7/22/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). BB 7/22/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BB 7/22/17

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1707184

ANALYTICAL QC SUMMARY REPORT

BatchID: 245884

Sample ID: MB-245884	Client ID:	Units: ug/Kg	Prep Date: 07/24/2017	Run No: 348227							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 245884	Analysis Date: 07/25/2017	Seq No: 7649750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-245884	Client ID:	Units: ug/Kg	Prep Date: 07/24/2017	Run No: 348227							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 245884	Analysis Date: 07/25/2017	Seq No: 7649751							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4381 1500 5000 58.85 86.4 80 120
 Barium 4883 500 5000 97.7 80 120

Sample ID: 1707184-001AMS	Client ID: RRCS-01	Units: mg/Kg-dry	Prep Date: 07/24/2017	Run No: 348227							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 245884	Analysis Date: 07/25/2017	Seq No: 7649753							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 6.13 4.088 2.103 67.2 75 125 S
 Barium 54.21 2.04 4.088 35.77 451 75 125 S

Sample ID: 1707184-001AMSD	Client ID: RRCS-01	Units: mg/Kg-dry	Prep Date: 07/24/2017	Run No: 348227							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 245884	Analysis Date: 07/25/2017	Seq No: 7649754							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 6.11 4.071 2.103 70.4 75 125 4.851 0 20 S
 Barium 39.97 2.04 4.071 35.77 103 75 125 54.21 30.2 20 R

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 27, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1707L13

Analytical Environmental Services, Inc. received 5 samples on 7/26/2017 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 27-Jul-17

Client: Georgia Power Company	Client Sample ID: RRCS-05
Project Name: Plant Kraft Excavation	Collection Date: 7/22/2017 11:35:00 AM
Lab ID: 1707L13-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.00		mg/Kg-dry	246020	1	07/26/2017 22:46	JR
Barium	33.6	0.47		mg/Kg-dry	246020	1	07/26/2017 22:46	JR
PERCENT MOISTURE D2216								
Percent Moisture	8.04	0		wt%	R348482	1	07/27/2017 15:30	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jul-17

Client: Georgia Power Company	Client Sample ID: RRCS-06
Project Name: Plant Kraft Excavation	Collection Date: 7/22/2017 11:40:00 AM
Lab ID: 1707L13-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.74		mg/Kg-dry	246020	1	07/26/2017 23:23	JR
Barium	10.2	0.38		mg/Kg-dry	246020	1	07/26/2017 23:23	JR
PERCENT MOISTURE D2216								
Percent Moisture	13.3	0		wt%	R348482	1	07/27/2017 15:30	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jul-17

Client: Georgia Power Company	Client Sample ID: RRCS-07
Project Name: Plant Kraft Excavation	Collection Date: 7/24/2017 7:40:00 AM
Lab ID: 1707L13-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.76		mg/Kg-dry	246020	1	07/27/2017 13:12	JR
Barium	21.3	0.45		mg/Kg-dry	246020	1	07/27/2017 13:12	JR
PERCENT MOISTURE D2216								
Percent Moisture	26.3	0		wt%	R348482	1	07/27/2017 15:30	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jul-17

Client: Georgia Power Company	Client Sample ID: RRCS-08
Project Name: Plant Kraft Excavation	Collection Date: 7/24/2017 7:42:00 AM
Lab ID: 1707L13-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.73		mg/Kg-dry	246020	1	07/27/2017 13:18	JR
Barium	15.3	0.52		mg/Kg-dry	246020	1	07/27/2017 13:18	JR
PERCENT MOISTURE D2216								
Percent Moisture	21.1	0		wt%	R348482	1	07/27/2017 15:30	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **GEORGIA POWER CO**

AES Work Order Number: **1707L12**

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TH 7/26/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TH 7/26/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). TH 7/26/17



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1707L13

ANALYTICAL QC SUMMARY REPORT

BatchID: 246020

Sample ID: MB-246020	Client ID:	Units: ug/Kg	Prep Date: 07/26/2017	Run No: 348426							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246020	Analysis Date: 07/26/2017	Seq No: 7654452							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246020	Client ID:	Units: ug/Kg	Prep Date: 07/26/2017	Run No: 348426							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246020	Analysis Date: 07/26/2017	Seq No: 7654455							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4716 1500 5000 94.3 80 120
 Barium 5185 500 5000 104 80 120

Sample ID: 1707L13-002AMS	Client ID: RRCS-05	Units: ug/Kg-dry	Prep Date: 07/26/2017	Run No: 348426							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246020	Analysis Date: 07/26/2017	Seq No: 7654457							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5767 1400 4651 1556 90.5 75 125
 Barium 28850 465 4651 33590 -102 75 125 S

Sample ID: 1707L13-002AMSD	Client ID: RRCS-05	Units: ug/Kg-dry	Prep Date: 07/26/2017	Run No: 348426							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246020	Analysis Date: 07/26/2017	Seq No: 7654458							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5636 1400 4677 1556 87.2 75 125 5767 2.31 20
 Barium 27100 468 4677 33590 -139 75 125 28850 6.24 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 31, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1707N96

Analytical Environmental Services, Inc. received 4 samples on 7/28/2017 10:15:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 31-Jul-17

Client: Georgia Power Company	Client Sample ID: RRCS-09
Project Name: Plant Kraft Excavation	Collection Date: 7/26/2017 11:30:00 AM
Lab ID: 1707N96-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.27		mg/Kg-dry	246145	5	07/28/2017 21:12	JR
Barium	6.98	3.03		mg/Kg-dry	246145	5	07/28/2017 21:12	JR
PERCENT MOISTURE D2216								
Percent Moisture	20.4	0		wt%	R348673	1	07/31/2017 14:00	JC

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Jul-17

Client: Georgia Power Company	Client Sample ID: RRCS-10
Project Name: Plant Kraft Excavation	Collection Date: 7/26/2017 2:30:00 PM
Lab ID: 1707N96-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.47		mg/Kg-dry	246145	5	07/28/2017 21:43	JR
Barium	21.0	2.77		mg/Kg-dry	246145	5	07/28/2017 21:43	JR
PERCENT MOISTURE D2216								
Percent Moisture	16.1	0		wt%	R348673	1	07/31/2017 14:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Jul-17

Client: Georgia Power Company	Client Sample ID: RRCS-11
Project Name: Plant Kraft Excavation	Collection Date: 7/27/2017 1:04:00 PM
Lab ID: 1707N96-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	38.9	7.25		mg/Kg-dry	246145	5	07/28/2017 21:49	JR
Barium	139	2.68		mg/Kg-dry	246145	5	07/28/2017 21:49	JR
PERCENT MOISTURE D2216								
Percent Moisture	15.5	0		wt%	R348673	1	07/31/2017 14:00	JC

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Jul-17

Client: Georgia Power Company	Client Sample ID: RRCS-12
Project Name: Plant Kraft Excavation	Collection Date: 7/27/2017 1:08:00 PM
Lab ID: 1707N96-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	246145	5	07/28/2017 22:20	JR
Barium	39.0	2.65		mg/Kg-dry	246145	5	07/28/2017 22:20	JR
PERCENT MOISTURE D2216								
Percent Moisture	26.2	0		wt%	R348673	1	07/31/2017 14:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1707N96

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 2.8 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 7/28/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TD 7/28/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). TD 7/28/17
Page 7 of 8

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1707N96

ANALYTICAL QC SUMMARY REPORT

BatchID: 246145

Sample ID: MB-246145	Client ID:	Units: ug/Kg	Prep Date: 07/28/2017	Run No: 348681							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246145	Analysis Date: 07/28/2017	Seq No: 7660283							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246145	Client ID:	Units: ug/Kg	Prep Date: 07/28/2017	Run No: 348681							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246145	Analysis Date: 07/28/2017	Seq No: 7660284							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4384 4300 5000 87.7 80 120
 Barium 4974 500 5000 99.5 80 120

Sample ID: 1707N96-001AMS	Client ID: RRCS-09	Units: mg/Kg-dry	Prep Date: 07/28/2017	Run No: 348681							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246145	Analysis Date: 07/28/2017	Seq No: 7660288							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.26 6.046 0.6269 85.4 75 125
 Barium 11.86 3.02 6.046 80.6 75 125

Sample ID: 1707N96-001AMSD	Client ID: RRCS-09	Units: mg/Kg-dry	Prep Date: 07/28/2017	Run No: 348681							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246145	Analysis Date: 07/28/2017	Seq No: 7660291							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.28 6.067 0.6269 86.2 75 125 5.792 0 20
 Barium 11.89 3.03 6.067 80.9 75 125 11.86 0.296 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 27, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1802K91

Analytical Environmental Services, Inc. received 1 samples on 2/22/2018 11:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18. State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1802K91

Case Narrative

Per Forrest Howard via phone on 2/26/18, laboratory proceeded with same day rush analysis for results by Monday, 2/26/18.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1802K91

ANALYTICAL QC SUMMARY REPORT

BatchID: 256439

Sample ID: MB-256439	Client ID:	Units: ug/Kg	Prep Date: 02/26/2018	Run No: 363947							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 256439	Analysis Date: 02/26/2018	Seq No: 8043145							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-256439	Client ID:	Units: ug/Kg	Prep Date: 02/26/2018	Run No: 363947							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 256439	Analysis Date: 02/26/2018	Seq No: 8043146							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6247 5500 5000 115.2 123 80 120 S
 Barium 5165 500 5000 103 80 120

Sample ID: LCS-256439	Client ID:	Units: ug/Kg	Prep Date: 02/26/2018	Run No: 363947							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 256439	Analysis Date: 02/26/2018	Seq No: 8043568							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5865 5000 5000 115.2 115 80 120

Sample ID: 1802K91-001AMS	Client ID: RVCS-135W-B	Units: mg/Kg-dry	Prep Date: 02/26/2018	Run No: 363947							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 256439	Analysis Date: 02/26/2018	Seq No: 8043148							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium 596.3 12.5 6.253 651.4 -882 75 125 S

Sample ID: 1802K91-001AMS	Client ID: RVCS-135W-B	Units: mg/Kg-dry	Prep Date: 02/26/2018	Run No: 363947							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 256439	Analysis Date: 02/26/2018	Seq No: 8043156							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 36.90 9.38 6.253 32.81 65.5 75 125 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1802K91

ANALYTICAL QC SUMMARY REPORT

BatchID: 256439

Sample ID: 1802K91-001AMSD	Client ID: RVCS-135W-B	Units: mg/Kg-dry	Prep Date: 02/26/2018	Run No: 363947							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 256439	Analysis Date: 02/26/2018	Seq No: 8043150							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	619.2	12.5	6.260	651.4	-515	75	125	596.3	3.77	20	S
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Sample ID: 1802K91-001AMSD	Client ID: RVCS-135W-B	Units: mg/Kg-dry	Prep Date: 02/26/2018	Run No: 363947							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 256439	Analysis Date: 02/26/2018	Seq No: 8043157							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	39.29	9.39	6.260	32.81	104	75	125	36.90	6.28	20	
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 04, 2017

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1712125

Analytical Environmental Services, Inc. received 2 samples on 12/2/2017 9:35:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 4-Dec-17

Client: Georgia Power Company	Client Sample ID: RVCS-4
Project Name: Plant Kraft Excavation	Collection Date: 12/1/2017 9:42:00 AM
Lab ID: 1712125-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.23		mg/Kg-dry	251902	20	12/04/2017 14:04	TA
Barium	23.2	6.70		mg/Kg-dry	251902	20	12/04/2017 14:04	TA
PERCENT MOISTURE D2216								
Percent Moisture	11.5	0		wt%	R358069	1	12/04/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1712125

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 12/2/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MJ 12/2/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MJ 12/2/17

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1712125

ANALYTICAL QC SUMMARY REPORT

BatchID: 251902

Sample ID: MB-251902	Client ID:	Units: ug/Kg	Prep Date: 12/04/2017	Run No: 358096							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 251902	Analysis Date: 12/04/2017	Seq No: 7893509							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-251902	Client ID:	Units: ug/Kg	Prep Date: 12/04/2017	Run No: 358096							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251902	Analysis Date: 12/04/2017	Seq No: 7893510							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6055 6000 5000 206.3 117 80 120
 Barium 5305 500 5000 106 80 120

Sample ID: 1712125-001AMS	Client ID: RVCS-3	Units: mg/Kg-dry	Prep Date: 12/04/2017	Run No: 358096							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 251902	Analysis Date: 12/04/2017	Seq No: 7893512							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4.956 3.83 4.784 1.832 65.3 75 125 S
 Barium 25.33 9.57 4.784 20.36 104 75 125

Sample ID: 1712125-001AMSD	Client ID: RVCS-3	Units: mg/Kg-dry	Prep Date: 12/04/2017	Run No: 358096							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 251902	Analysis Date: 12/04/2017	Seq No: 7893513							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.085 3.82 4.780 1.832 68.0 75 125 4.956 2.55 20 S
 Barium 27.18 9.56 4.780 20.36 143 75 125 25.33 7.08 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 11, 2017

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1712627

Analytical Environmental Services, Inc. received 3 samples on 12/7/2017 10:43:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 11-Dec-17

Client: Georgia Power Company	Client Sample ID: RVCS-6
Project Name: Plant Kraft Excavation	Collection Date: 12/5/2017 12:32:00 PM
Lab ID: 1712627-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	7.92	7.34		mg/Kg-dry	252610	20	12/08/2017 13:37	TA
Barium	14.6	8.06		mg/Kg-dry	252610	20	12/08/2017 13:37	TA
PERCENT MOISTURE D2216								
Percent Moisture	11.9	0		wt%	R358458	1	12/08/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1712627

ANALYTICAL QC SUMMARY REPORT

BatchID: 252610

Sample ID: MB-252610	Client ID:	Units: ug/Kg	Prep Date: 12/08/2017	Run No: 358461							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 252610	Analysis Date: 12/08/2017	Seq No: 7902981							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 4500
 Barium BRL 500

Sample ID: LCS-252610	Client ID:	Units: ug/Kg	Prep Date: 12/08/2017	Run No: 358461							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 252610	Analysis Date: 12/08/2017	Seq No: 7902982							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4526 4500 5000 245.6 85.6 80 120
 Barium 5227 500 5000 105 80 120

Sample ID: 1712627-001AMS	Client ID: RVCS-5	Units: mg/Kg-dry	Prep Date: 12/08/2017	Run No: 358461							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 252610	Analysis Date: 12/08/2017	Seq No: 7902984							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6.354 6.18 5.720 1.544 84.1 75 125
 Barium 23.79 11.4 5.720 18.57 91.2 75 125

Sample ID: 1712627-001AMSD	Client ID: RVCS-5	Units: mg/Kg-dry	Prep Date: 12/08/2017	Run No: 358461							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 252610	Analysis Date: 12/08/2017	Seq No: 7902987							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.739 6.18 5.721 1.544 108 75 125 6.354 19.7 20
 Barium 26.34 11.4 5.721 18.57 136 75 125 23.79 10.1 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 05, 2018

Lea Millet
Georgia Power Company

241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1802134

Analytical Environmental Services, Inc. received 6 samples on 2/2/2018 8:00:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1802134

Case Narrative

Metals Analysis by Method 6020B:

Due to sample matrix, sample 1802134-001A, -002A, -003A, -004A, and -005 A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 5-Feb-18

Client: Georgia Power Company	Client Sample ID: DSCS-03
Project Name: Plant Kraft Excavation	Collection Date: 1/30/2018 9:50:00 AM
Lab ID: 1802134-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.21		mg/Kg-dry	255179	20	02/05/2018 15:46	DP
Barium	42.6	9.12		mg/Kg-dry	255179	20	02/05/2018 15:46	DP
PERCENT MOISTURE D2216								
Percent Moisture	11.3	0		wt%	R362317	1	02/05/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-Feb-18

Client: Georgia Power Company	Client Sample ID: DSCS-05
Project Name: Plant Kraft Excavation	Collection Date: 1/31/2018 3:00:00 PM
Lab ID: 1802134-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.80		mg/Kg-dry	255179	20	02/05/2018 15:50	DP
Barium	16.2	7.09		mg/Kg-dry	255179	20	02/05/2018 15:50	DP
PERCENT MOISTURE D2216								
Percent Moisture	6.46	0		wt%	R362317	1	02/05/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-Feb-18

Client: Georgia Power Company	Client Sample ID: RVCS-12-SW
Project Name: Plant Kraft Excavation	Collection Date: 1/31/2018 10:30:00 AM
Lab ID: 1802134-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	24.5	7.63		mg/Kg-dry	255179	20	02/05/2018 15:52	DP
Barium	113	7.63		mg/Kg-dry	255179	20	02/05/2018 15:52	DP
PERCENT MOISTURE D2216								
Percent Moisture	17.4	0		wt%	R362317	1	02/05/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1802134

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/2/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TD 2/2/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). TD 2/2/18
Page 10 of 11



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1802134

ANALYTICAL QC SUMMARY REPORT

BatchID: 255179

Sample ID: MB-255179	Client ID:	Units: ug/Kg	Prep Date: 02/02/2018	Run No: 362352							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 255179	Analysis Date: 02/05/2018	Seq No: 8004228							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-255179	Client ID:	Units: ug/Kg	Prep Date: 02/02/2018	Run No: 362352							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255179	Analysis Date: 02/05/2018	Seq No: 8004229							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4482 4000 5000 113.3 87.4 80 120
 Barium 5121 500 5000 102 80 120

Sample ID: 1802134-001AMS	Client ID: DSCS-01	Units: mg/Kg-dry	Prep Date: 02/02/2018	Run No: 362352							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255179	Analysis Date: 02/05/2018	Seq No: 8004233							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7.87 4.371 2.555 100 75 125
 Barium 55.63 8.74 4.371 45.19 239 75 125 S

Sample ID: 1802134-001AMSD	Client ID: DSCS-01	Units: mg/Kg-dry	Prep Date: 02/02/2018	Run No: 362352							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 255179	Analysis Date: 02/05/2018	Seq No: 8004234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 131 4.360 2.555 108 75 125 6.930 0 20
 Barium 72.25 8.72 4.360 45.19 621 75 125 55.63 26.0 20 SR

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 01, 2017

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1711P96

Analytical Environmental Services, Inc. received 2 samples on 11/30/2017 11:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1711P96

ANALYTICAL QC SUMMARY REPORT

BatchID: 252215

Sample ID: MB-252215	Client ID:	Units: ug/Kg	Prep Date: 11/30/2017	Run No: 357983							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 252215	Analysis Date: 12/01/2017	Seq No: 7890960							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-252215	Client ID:	Units: ug/Kg	Prep Date: 11/30/2017	Run No: 357983							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 252215	Analysis Date: 12/01/2017	Seq No: 7890961							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4070 4000 5000 81.4 80 120
 Barium 4727 500 5000 94.5 80 120

Sample ID: 1711P96-001AMS	Client ID: RVCS-1	Units: mg/Kg-dry	Prep Date: 11/30/2017	Run No: 357983							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 252215	Analysis Date: 12/01/2017	Seq No: 7890963							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6.323 6.11 3.818 3.926 62.8 75 125 S
 Barium 38.24 7.64 3.818 29.60 226 75 125 S

Sample ID: 1711P96-001AMSD	Client ID: RVCS-1	Units: mg/Kg-dry	Prep Date: 11/30/2017	Run No: 357983							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 252215	Analysis Date: 12/01/2017	Seq No: 7890964							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.002 6.10 3.809 3.926 80.7 75 125 6.323 10.2 20
 Barium 38.45 7.62 3.809 29.60 232 75 125 38.24 0.532 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Analytical Environmental Services, Inc

Date: 15-Dec-17

Client: Georgia Power Company	Client Sample ID: RVCS-8
Project Name: Plant Kraft Excavation	Collection Date: 12/11/2017 1:34:00 PM
Lab ID: 1712E00-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.44		mg/Kg-dry	252951	20	12/15/2017 13:29	TA
Barium	31.4	7.75		mg/Kg-dry	252951	20	12/15/2017 13:29	TA
PERCENT MOISTURE D2216								
Percent Moisture	15.4	0		wt%	R359059	1	12/15/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Dec-17

Client: Georgia Power Company	Client Sample ID: RVCS-9
Project Name: Plant Kraft Excavation	Collection Date: 12/12/2017 10:44:00 AM
Lab ID: 1712E00-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.32		mg/Kg-dry	252951	20	12/15/2017 13:37	TA
Barium	20.3	6.91		mg/Kg-dry	252951	20	12/15/2017 13:37	TA
PERCENT MOISTURE D2216								
Percent Moisture	12.8	0		wt%	R359059	1	12/15/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Dec-17

Client: Georgia Power Company	Client Sample ID: RVCS-10
Project Name: Plant Kraft Excavation	Collection Date: 12/13/2017 9:48:00 AM
Lab ID: 1712E00-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.22		mg/Kg-dry	252951	20	12/15/2017 13:39	TA
Barium	20.8	10.9		mg/Kg-dry	252951	20	12/15/2017 13:39	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.75	0		wt%	R359059	1	12/15/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Dec-17

Client: Georgia Power Company	Client Sample ID: RVCS-11SW
Project Name: Plant Kraft Excavation	Collection Date: 12/13/2017 9:54:00 AM
Lab ID: 1712E00-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.43		mg/Kg-dry	252951	20	12/15/2017 13:20	TA
Barium	28.8	10.0		mg/Kg-dry	252951	20	12/15/2017 13:20	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.48	0		wt%	R359059	1	12/15/2017 13:00	OO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 20, 2018

Lea Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Lea Millet:

Order No: 1802F18

Analytical Environmental Services, Inc. received 4 samples on 2/16/2018 8:06:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Analytical Environmental Services, Inc

Date: 20-Feb-18

Client: Georgia Power Company	Client Sample ID: DSCS-08
Project Name: Plant Kraft Excavation	Collection Date: 2/13/2018 11:05:00 AM
Lab ID: 1802F18-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.34		mg/Kg-dry	255970	20	02/19/2018 13:28	DP
Barium	47.0	0.56		mg/Kg-dry	255970	20	02/19/2018 13:28	DP
PERCENT MOISTURE D2216								
Percent Moisture	11.4	0		wt%	R363370	1	02/19/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Feb-18

Client: Georgia Power Company	Client Sample ID: RVCS-13SW
Project Name: Plant Kraft Excavation	Collection Date: 2/14/2018 9:00:00 AM
Lab ID: 1802F18-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	50.6	8.94		mg/Kg-dry	255970	50	02/19/2018 13:43	DP
Barium	200	0.60		mg/Kg-dry	255970	50	02/19/2018 13:43	DP
PERCENT MOISTURE D2216								
Percent Moisture	34.9	0		wt%	R363370	1	02/19/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Feb-18

Client: Georgia Power Company	Client Sample ID: RVCS-14SW
Project Name: Plant Kraft Excavation	Collection Date: 2/14/2018 9:25:00 AM
Lab ID: 1802F18-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	40.8	12.9		mg/Kg-dry	255970	50	02/19/2018 13:45	DP
Barium	243	0.86		mg/Kg-dry	255970	50	02/19/2018 13:45	DP
PERCENT MOISTURE D2216								
Percent Moisture	43.5	0		wt%	R363370	1	02/19/2018 13:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1802F18

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). EDM 2/16/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). EDM 2/16/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). EDM 2/16/18

Client: Georgia Power Company
Project Name Plant Kraft Excavation
Workorder: 1802F18

ANALYTICAL QC SUMMARY REPORT

BatchID: 255970

Sample ID: MB-255970	Client ID:	Units: ug/Kg	Prep Date: 02/16/2018	Run No: 363392							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 255970	Analysis Date: 02/19/2018	Seq No: 8028519							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-255970	Client ID:	Units: ug/Kg	Prep Date: 02/16/2018	Run No: 363392							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255970	Analysis Date: 02/19/2018	Seq No: 8028520							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6016 5500 5000 95.14 118 80 120
 Barium 5068 500 5000 101 80 120

Sample ID: 1802F18-001AMS	Client ID: DSCS-07	Units: mg/Kg-dry	Prep Date: 02/16/2018	Run No: 363392							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 255970	Analysis Date: 02/19/2018	Seq No: 8028531							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6.405 5.25 4.371 2.683 85.2 75 125
 Barium 35.34 8.74 4.371 30.25 116 75 125

Sample ID: 1802F18-001AMSD	Client ID: DSCS-07	Units: mg/Kg-dry	Prep Date: 02/16/2018	Run No: 363392							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 255970	Analysis Date: 02/19/2018	Seq No: 8028532							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 6.114 5.24 4.371 2.683 78.5 75 125 6.405 4.65 20
 Barium 28.65 8.74 4.371 30.25 -36.7 75 125 35.34 20.9 20 SR

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 12, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1706866

Analytical Environmental Services, Inc. received 2 samples on 6/9/2017 9:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/16-06/30/17 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1706866

Date: 6/8/17 Page 1 of 1

NY: <u>Georgia Power Company</u> ADDRESS: <u>241 Ralph McGill Blvd SE Bldg 801ES Atlanta GA 30308</u>		ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers			
ED BY: <u>Forrest Howard</u> FAX: <u>forrest.howard@aesatlanta.com</u> SIGNATURE:		PRESERVATION (See codes)										REMARKS					
SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)										REMARKS	No # of Containers
	DATE	TIME				I	II	III	IV	V	VI	VII	VIII	IX	X		
<u>SBCS-01</u>	<u>6/8/17</u>	<u>1150</u>	<u>X</u>		<u>SO</u>	<u>X</u>											<u>1</u>
<u>SBCS-02</u>	<u>6/8/17</u>	<u>1152</u>	<u>X</u>		<u>SO</u>	<u>X</u>											<u>1</u>
DISPATCHED BY: DATE/TIME: <u>6/8/17 1700</u>		RECEIVED BY: <u>1: FedEx</u> DATE/TIME:		PROJECT INFORMATION										RECEIPT			
		<u>2: Alex Dudgeon 6/9/17 9:20</u>		PROJECT NAME: <u>Plant Kraft Excavation</u>										Total # of Containers			
		<u>3: (FedEx)</u>		PROJECT #:										Turnaround Time Request			
INSTRUCTIONS/COMMENTS: <u>Report to: Stephen W. Olsen, Trent Godwin, Forrest Howard, Lee Millet, Nick Hyman</u>		SHIPMENT METHOD		SITE ADDRESS: <u>Plant Kraft Port Westward</u>										<input type="checkbox"/> Standard 5 Business Days			
		OUT / / VIA:		SEND REPORT TO: <u>in comments</u>										<input type="checkbox"/> 2 Business Day Rush			
		IN / / VIA:		INVOICE TO: <u>GPC Environmental Affairs</u>										<input checked="" type="checkbox"/> Next Business Day Rush			
		<input type="checkbox"/> CLIENT <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER		(IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same Day Rush (auth req.)			
		<input type="checkbox"/> GREYHOUND <input type="checkbox"/> OTHER		QUOTE #: PO#:										<input type="checkbox"/> Other			

ITEMS RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

RESAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

X CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
 V CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 12-Jun-17

Client: Georgia Power Company	Client Sample ID: SBCS-01
Project Name: Plant Kraft Excavation	Collection Date: 6/8/2017 11:50:00 AM
Lab ID: 1706866-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Antimony	0.28	0.21		mg/Kg-dry	243902	1	06/09/2017 19:21	JR
Arsenic	BRL	6.34		mg/Kg-dry	243902	1	06/09/2017 19:21	JR
Nickel	9.27	0.21		mg/Kg-dry	243902	1	06/09/2017 19:21	JR
Thallium	BRL	0.04		mg/Kg-dry	243902	1	06/09/2017 19:21	JR
PERCENT MOISTURE D2216								
Percent Moisture	5.81	0		wt%	R345162	1	06/12/2017 09:00	JC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Jun-17

Client: Georgia Power Company	Client Sample ID: SBCS-02
Project Name: Plant Kraft Excavation	Collection Date: 6/8/2017 11:52:00 AM
Lab ID: 1706866-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Antimony	BRL	0.19		mg/Kg-dry	243902	1	06/09/2017 19:28	JR
Arsenic	BRL	5.67		mg/Kg-dry	243902	1	06/09/2017 19:28	JR
Nickel	6.11	0.19		mg/Kg-dry	243902	1	06/09/2017 19:28	JR
Thallium	BRL	0.04		mg/Kg-dry	243902	1	06/09/2017 19:28	JR
PERCENT MOISTURE D2216								
Percent Moisture	2.38	0		wt%	R345162	1	06/12/2017 09:00	JC

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1706866

ANALYTICAL QC SUMMARY REPORT

BatchID: 243902

Sample ID: MB-243902	Client ID:	Units: ug/Kg	Prep Date: 06/09/2017	Run No: 345116							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 243902	Analysis Date: 06/09/2017	Seq No: 7574168							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	BRL	250									
Arsenic	BRL	7500									
Nickel	BRL	250									
Thallium	BRL	50.0									

Sample ID: LCS-243902	Client ID:	Units: ug/Kg	Prep Date: 06/09/2017	Run No: 345116							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 243902	Analysis Date: 06/09/2017	Seq No: 7574074							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	4810	250	5000		96.2	80	120				
Arsenic	4532	4500	5000		90.6	80	120				
Nickel	4889	250	5000		97.8	80	120				
Thallium	4856	50.0	5000		97.1	80	120				

Sample ID: 1706865-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 06/09/2017	Run No: 345116							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 243902	Analysis Date: 06/09/2017	Seq No: 7574077							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	3.709	0.29	5.838	0.1611	60.8	75	125				S
Arsenic	12.32	8.76	5.838	4.915	127	75	125				S
Nickel	18.22	0.29	5.838	5.923	211	75	125				S
Thallium	5.621	0.06	5.838	0.1614	93.5	75	125				

Sample ID: 1706865-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 06/09/2017	Run No: 345116							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 243902	Analysis Date: 06/09/2017	Seq No: 7574078							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	3.212	0.26	5.149	0.1611	59.3	75	125	3.709	14.4	20	S
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Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1706866

ANALYTICAL QC SUMMARY REPORT

BatchID: 243902

Sample ID: 1706865-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 06/09/2017	Run No: 345116							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 243902	Analysis Date: 06/09/2017	Seq No: 7574078							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	11.04	7.72	5.149	4.915	119	75	125	12.32	11.0	20	
Nickel	13.80	0.26	5.149	5.923	153	75	125	18.22	27.6	20	SR
Thallium	5.006	0.05	5.149	0.1614	94.1	75	125	5.621	11.6	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 28, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704M66

Analytical Environmental Services, Inc. received 3 samples on 4/27/2017 10:35:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 28-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-12
Project Name: Plant Kraft Excavation	Collection Date: 4/26/2017 2:15:00 PM
Lab ID: 1704M66-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.61		mg/Kg-dry	241739	5	04/28/2017 16:25	JR
Barium	14.0	2.54		mg/Kg-dry	241739	5	04/28/2017 16:25	JR
Beryllium	0.20	0.05		mg/Kg-dry	241739	5	04/28/2017 16:25	JR
PERCENT MOISTURE D2216								
Percent Moisture	8.11	0		wt%	R341768	1	04/28/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-13
Project Name: Plant Kraft Excavation	Collection Date: 4/26/2017 2:20:00 PM
Lab ID: 1704M66-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.33		mg/Kg-dry	241739	5	04/28/2017 16:51	JR
Barium	9.58	2.78		mg/Kg-dry	241739	5	04/28/2017 16:51	JR
Beryllium	BRL	0.06		mg/Kg-dry	241739	5	04/28/2017 16:51	JR
PERCENT MOISTURE D2216								
Percent Moisture	16.0	0		wt%	R341768	1	04/28/2017 07:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-14
Project Name: Plant Kraft Excavation	Collection Date: 4/26/2017 2:25:00 PM
Lab ID: 1704M66-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.70		mg/Kg-dry	241739	5	04/28/2017 16:57	JR
Barium	13.1	2.57		mg/Kg-dry	241739	5	04/28/2017 16:57	JR
Beryllium	BRL	0.05		mg/Kg-dry	241739	5	04/28/2017 16:57	JR
PERCENT MOISTURE D2216								
Percent Moisture	3.95	0		wt%	R341768	1	04/28/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704M66

ANALYTICAL QC SUMMARY REPORT

BatchID: 241739

Sample ID: MB-241739	Client ID:	Units: ug/Kg	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/27/2017	Seq No: 7483720							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500

Sample ID: MB-241739	Client ID:	Units: ug/Kg	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/28/2017	Seq No: 7486447							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium BRL 500
 Beryllium BRL 50.0

Sample ID: LCS-241739	Client ID:	Units: ug/Kg	Prep Date: 04/27/2017	Run No: 341712							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/27/2017	Seq No: 7483721							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500 5000 94.9 80 120

Sample ID: LCS-241739	Client ID:	Units: ug/Kg	Prep Date: 04/27/2017	Run No: 341712							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/28/2017	Seq No: 7486448							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium 4781 500 5000 95.6 80 120
 Beryllium 4109 50.0 5000 82.2 80 120

Sample ID: 1704M65-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/27/2017	Seq No: 7483723							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 13850 7990 5324 8943 92.1 75 125

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704M66

ANALYTICAL QC SUMMARY REPORT

BatchID: 241739

Sample ID: 1704M65-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/28/2017	Seq No: 7486450							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	152800	2660	5324	135200	331	75	125				S
Beryllium	7967	266	5324	1002	131	75	125				S

Sample ID: 1704M65-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/27/2017	Seq No: 7483724							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	14190	7990	5325	8943	98.5	75	125	13850	2.41	20	
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Sample ID: 1704M65-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/27/2017	Run No: 341712							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241739	Analysis Date: 04/28/2017	Seq No: 7486451							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	150200	2660	5325	135200	282	75	125	152800	1.71	20	S
Beryllium	7645	266	5325	1002	125	75	125	7967	4.13	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 03, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704O50

Analytical Environmental Services, Inc. received 3 samples on 4/28/2017 12:35:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 3-May-17

Client: Georgia Power Company	Client Sample ID: APCS-15
Project Name: Plant Kraft Excavation	Collection Date: 4/27/2017 11:40:00 AM
Lab ID: 1704O50-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.94		mg/Kg-dry	241842	5	05/01/2017 17:16	JR
Barium	11.3	0.53		mg/Kg-dry	241842	5	05/01/2017 17:16	JR
Beryllium	0.33	0.05		mg/Kg-dry	241842	5	05/01/2017 17:16	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R341910	1	05/01/2017 07:30	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-17

Client: Georgia Power Company	Client Sample ID: APCS-16
Project Name: Plant Kraft Excavation	Collection Date: 4/27/2017 11:45:00 AM
Lab ID: 1704O50-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.71		mg/Kg-dry	241842	5	05/01/2017 16:38	JR
Barium	7.63	0.51		mg/Kg-dry	241842	5	05/01/2017 16:38	JR
Beryllium	BRL	0.05		mg/Kg-dry	241842	5	05/01/2017 16:38	JR
PERCENT MOISTURE D2216								
Percent Moisture	11.5	0		wt%	R341910	1	05/01/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-May-17

Client: Georgia Power Company	Client Sample ID: APCS-17
Project Name: Plant Kraft Excavation	Collection Date: 4/27/2017 11:50:00 AM
Lab ID: 1704O50-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.59		mg/Kg-dry	241842	5	05/01/2017 17:22	JR
Barium	11.8	0.51		mg/Kg-dry	241842	5	05/01/2017 17:22	JR
Beryllium	BRL	0.05		mg/Kg-dry	241842	5	05/01/2017 17:22	JR
PERCENT MOISTURE D2216								
Percent Moisture	6.70	0		wt%	R341910	1	05/01/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704O50

ANALYTICAL QC SUMMARY REPORT

BatchID: 241842

Sample ID: MB-241842	Client ID:	Units: ug/Kg	Prep Date: 05/01/2017	Run No: 341934							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241842	Analysis Date: 05/01/2017	Seq No: 7489717							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241842	Client ID:	Units: ug/Kg	Prep Date: 05/01/2017	Run No: 341934							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241842	Analysis Date: 05/01/2017	Seq No: 7489723							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5033	1500	5000		101	80	120				
Barium	4609	500	5000		92.2	80	120				
Beryllium	4722	50.0	5000		94.4	80	120				

Sample ID: 1704O50-002AMS	Client ID: APCS-16	Units: mg/Kg-dry	Prep Date: 05/01/2017	Run No: 341934							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241842	Analysis Date: 05/01/2017	Seq No: 7489719							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7.054	5.17	5.175	1.740	103	75	125				
Barium	16.16	0.52	5.175	7.629	165	75	125				S
Beryllium	5.543	0.05	5.175		107	75	125				

Sample ID: 1704O50-002AMSD	Client ID: APCS-16	Units: mg/Kg-dry	Prep Date: 05/01/2017	Run No: 341934							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241842	Analysis Date: 05/01/2017	Seq No: 7489720							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	8.187	7.76	5.173	1.740	125	75	125	7.054	14.9	20	
Barium	14.23	0.52	5.173	7.629	128	75	125	16.16	12.7	20	S
Beryllium	5.798	0.05	5.173		112	75	125	5.543	4.49	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 13, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704918

Analytical Environmental Services, Inc. received 9 samples on 4/12/2017 7:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-06
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2017 4:10:00 PM
Lab ID: 1704918-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.34		mg/Kg-dry	240900	1	04/12/2017 19:43	JS
Barium	22.3	0.42		mg/Kg-dry	240900	1	04/12/2017 19:43	JS
Beryllium	0.08	0.04		mg/Kg-dry	240900	1	04/12/2017 19:43	JS
PERCENT MOISTURE D2216								
Percent Moisture	12.8	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-07
Project Name: Plant Kraft Excavation	Collection Date: 4/10/2017 4:15:00 PM
Lab ID: 1704918-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.91		mg/Kg-dry	240900	1	04/12/2017 19:49	JS
Barium	9.76	0.46		mg/Kg-dry	240900	1	04/12/2017 19:49	JS
Beryllium	0.05	0.05		mg/Kg-dry	240900	1	04/12/2017 19:49	JS
PERCENT MOISTURE D2216								
Percent Moisture	11.1	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-08
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 9:20:00 AM
Lab ID: 1704918-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.49		mg/Kg-dry	240900	1	04/12/2017 19:55	JS
Barium	4.07	0.50		mg/Kg-dry	240900	1	04/12/2017 19:55	JS
Beryllium	BRL	0.05		mg/Kg-dry	240900	1	04/12/2017 19:55	JS
PERCENT MOISTURE D2216								
Percent Moisture	20.3	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-09
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 9:25:00 AM
Lab ID: 1704918-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.05		mg/Kg-dry	240900	1	04/12/2017 20:02	JS
Barium	28.2	0.54		mg/Kg-dry	240900	1	04/12/2017 20:02	JS
Beryllium	0.11	0.05		mg/Kg-dry	240900	1	04/12/2017 20:02	JS
PERCENT MOISTURE D2216								
Percent Moisture	25.9	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-17
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 10:20:00 AM
Lab ID: 1704918-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	8.20	7.56		mg/Kg-dry	240900	1	04/12/2017 20:08	JS
Barium	23.1	0.50		mg/Kg-dry	240900	1	04/12/2017 20:08	JS
Beryllium	0.29	0.05		mg/Kg-dry	240900	1	04/12/2017 20:08	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.6		mg/Kg-dry	240907	1	04/12/2017 17:01	RF
Surr: Dioctylphthalate	77.7	54.5-121		%REC	240907	1	04/12/2017 17:01	RF
PERCENT MOISTURE D2216								
Percent Moisture	22.2	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-18
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 10:25:00 AM
Lab ID: 1704918-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	6.98		mg/Kg-dry	240900	1	04/12/2017 20:14	JS
Barium	30.1	0.47		mg/Kg-dry	240900	1	04/12/2017 20:14	JS
Beryllium	0.26	0.05		mg/Kg-dry	240900	1	04/12/2017 20:14	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.4		mg/Kg-dry	240907	1	04/12/2017 17:24	RF
Surr: Dioctylphthalate	80.2	54.5-121		%REC	240907	1	04/12/2017 17:24	RF
PERCENT MOISTURE D2216								
Percent Moisture	20.6	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-10
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 3:25:00 PM
Lab ID: 1704918-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.44		mg/Kg-dry	240900	1	04/12/2017 20:20	JS
Barium	17.7	0.56		mg/Kg-dry	240900	1	04/12/2017 20:20	JS
Beryllium	0.07	0.06		mg/Kg-dry	240900	1	04/12/2017 20:20	JS
PERCENT MOISTURE D2216								
Percent Moisture	12.3	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-19
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 3:35:00 PM
Lab ID: 1704918-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.97		mg/Kg-dry	240900	1	04/12/2017 20:26	JS
Barium	20.3	0.53		mg/Kg-dry	240900	1	04/12/2017 20:26	JS
Beryllium	0.12	0.05		mg/Kg-dry	240900	1	04/12/2017 20:26	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.6		mg/Kg-dry	240907	1	04/12/2017 17:47	RF
Surr: Dioctylphthalate	81.6	54.5-121		%REC	240907	1	04/12/2017 17:47	RF
PERCENT MOISTURE D2216								
Percent Moisture	12.2	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-20
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 3:40:00 PM
Lab ID: 1704918-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.20		mg/Kg-dry	240900	1	04/12/2017 20:33	JS
Barium	85.4	0.48		mg/Kg-dry	240900	1	04/12/2017 20:33	JS
Beryllium	0.15	0.05		mg/Kg-dry	240900	1	04/12/2017 20:33	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.1		mg/Kg-dry	240907	1	04/12/2017 18:09	RF
Surr: Dioctylphthalate	84.6	54.5-121		%REC	240907	1	04/12/2017 18:09	RF
PERCENT MOISTURE D2216								
Percent Moisture	17.8	0		wt%	R340583	1	04/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704918

ANALYTICAL QC SUMMARY REPORT

BatchID: 240900

Sample ID: MB-240900	Client ID:	Units: ug/Kg	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453501							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-240900	Client ID:	Units: ug/Kg	Prep Date: 04/12/2017	Run No: 340568							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453502							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4317	1000	5000	199.8	82.3	80	120				
Barium	4922	500	5000		98.4	80	120				
Beryllium	4549	50.0	5000		91.0	80	120				

Sample ID: 1704917-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453504							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7694	7690	5492	2373	96.9	75	125				
Barium	40420	549	5492	33980	117	75	125				
Beryllium	5429	54.9	5492	196.2	95.3	75	125				

Sample ID: 1704917-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453505							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7405	7320	5230	2373	96.2	75	125	7694	3.83	20	
Barium	40670	523	5230	33980	128	75	125	40420	0.603	20	S
Beryllium	5298	52.3	5230	196.2	97.5	75	125	5429	2.45	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704918

ANALYTICAL QC SUMMARY REPORT

BatchID: 240907

Sample ID: MB-240907	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7453229							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.743 0 3.300 83.1 54.5 121

Sample ID: LCS-240907	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7453407							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 23.91 6.7 33.30 71.8 54.6 120
 Surr: Dioctylphthalate 2.752 0 3.330 82.6 54.5 121

Sample ID: 1704784-002CMS	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7454711							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 84.01 6.7 33.30 90.34 -19.0 40.6 122 S
 Surr: Dioctylphthalate 2.806 0 3.330 84.3 54.5 121

Sample ID: 1704784-002CMSD	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7454712							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 93.66 6.7 33.30 90.34 9.98 40.6 122 84.01 10.9 29.9 S
 Surr: Dioctylphthalate 3.100 0 3.330 93.1 54.5 121 2.806 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 04, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705229

Analytical Environmental Services, Inc. received 4 samples on May 3, 2017 10:10 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
 3080 Presidential Drive Atlanta, GA 30340-3704
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1705229

Date: 5/2/17 Page 1 of 4

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE B10185 Atlanta GA 30308</u>					ANALYSIS REQUESTED							Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers	
PHONE: <u>770-296-9248</u>		EMAIL: <u>Forrest.Howard@aesatlanta.com</u>					PRESERVATION (see codes)									
SAMPLED BY: <u>Forrest Howard</u>		SIGNATURE:														
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	REMARKS									
		DATE	TIME													
1	APCS-18	5/2/17	1425	X		SO	X									
2	APCS-19	5/2/17	1430	X		SO	X									
3	EAPCS-01	5/2/17	1545	X		SO	X									
4	EAPCS-02	5/2/17	1550	X		SO	X									
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION							RECEIPT	
1.		5/2/17 1700		1. <u>To Fedex</u>		5/3/17 10:10		PROJECT NAME: <u>Plant Kraft Excavation</u>							Total # of Containers	
2.				2. <u>Alford</u>				PROJECT #:							Turnaround Time (TAT) Request	
3.				3.				SITE ADDRESS: <u>Pent westworth GA</u>							<input type="checkbox"/> Standard 5 Business Days	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: <u>in comments</u>							<input type="checkbox"/> 2 Business Day Rush	
				OUT: / / VIA:				INVOICE TO: <u>GPC Environmental Affairs</u>							<input checked="" type="checkbox"/> Next Business Day Rush	
				IN: client <u>FedEx</u> UPS US mail courier Greyhound				(IF DIFFERENT FROM ABOVE) <u>sent on AES Fedex account</u>							<input type="checkbox"/> Same-Day Rush (auth req.)	
				other: _____				QUOTE #:							<input type="checkbox"/> Other _____	
								PO#:							STATE PROGRAM (if any): _____	
															E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
															DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
 Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: APCS-18
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 2:25:00 PM
Lab ID: 1705229-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.80		mg/Kg-dry	241933	5	05/03/2017 18:25	JR
Barium	72.4	2.93		mg/Kg-dry	241933	5	05/03/2017 18:25	JR
Beryllium	0.63	0.29		mg/Kg-dry	241933	5	05/03/2017 18:25	JR
PERCENT MOISTURE D2216								
Percent Moisture	29.3	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: APCS-19
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 2:30:00 PM
Lab ID: 1705229-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	8.51	7.36		mg/Kg-dry	241933	5	05/03/2017 18:31	JR
Barium	730	2.45		mg/Kg-dry	241933	5	05/03/2017 18:31	JR
Beryllium	0.82	0.24		mg/Kg-dry	241933	5	05/03/2017 18:31	JR
PERCENT MOISTURE D2216								
Percent Moisture	28.8	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-01
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 3:45:00 PM
Lab ID: 1705229-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.44		mg/Kg-dry	241933	5	05/03/2017 18:37	JR
Barium	32.9	1.81		mg/Kg-dry	241933	5	05/03/2017 18:37	JR
Beryllium	0.19	0.18		mg/Kg-dry	241933	5	05/03/2017 18:37	JR
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-02
Project Name: Plant Kraft Excavation	Collection Date: 5/2/2017 3:50:00 PM
Lab ID: 1705229-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.51		mg/Kg-dry	241933	5	05/03/2017 18:43	JR
Barium	13.7	1.84		mg/Kg-dry	241933	5	05/03/2017 18:43	JR
Beryllium	BRL	0.04		mg/Kg-dry	241933	5	05/03/2017 18:43	JR
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R342244	1	05/04/2017 07:30	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705229

ANALYTICAL QC SUMMARY REPORT

BatchID: 241933

Sample ID: MB-241933	Client ID:	Units: ug/Kg	Prep Date: 05/02/2017	Run No: 342046							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492483							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241933	Client ID:	Units: ug/Kg	Prep Date: 05/02/2017	Run No: 342046							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492484							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4375	1500	5000	75.50	86.0	80	120				
Barium	5160	500	5000	431.3	94.6	80	120				
Beryllium	5585	50.0	5000		112	80	120				

Sample ID: 1705080-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/02/2017	Run No: 342046							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492486							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	19320	6830	4556	13950	118	75	125				
Barium	216100	2280	4556	202700	295	75	125				S
Beryllium	6693	228	4556	1319	118	75	125				

Sample ID: 1705080-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/02/2017	Run No: 342046							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241933	Analysis Date: 05/02/2017	Seq No: 7492487							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	17230	6840	4561	13950	71.9	75	125	19320	11.4	20	S
Barium	197700	2280	4561	202700	-108	75	125	216100	8.89	20	S
Beryllium	6668	228	4561	1319	117	75	125	6693	0.380	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 05, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1705355

Analytical Environmental Services, Inc. received 8 samples on 5/4/2017 10:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-20
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 10:30:00 AM
Lab ID: 1705355-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.28		mg/Kg-dry	241300	1	05/04/2017 20:26	JS
Barium	24.1	0.35		mg/Kg-dry	241300	1	05/04/2017 20:26	JS
Beryllium	0.09	0.04		mg/Kg-dry	241300	1	05/04/2017 20:26	JS
PERCENT MOISTURE D2216								
Percent Moisture	17.7	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-21
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 10:35:00 AM
Lab ID: 1705355-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	9.38	7.91		mg/Kg-dry	241300	1	05/04/2017 20:32	JS
Barium	48.8	0.53		mg/Kg-dry	241300	1	05/04/2017 20:32	JS
Beryllium	0.26	0.05		mg/Kg-dry	241300	1	05/04/2017 20:32	JS
PERCENT MOISTURE D2216								
Percent Moisture	21.3	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-22
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 3:18:00 PM
Lab ID: 1705355-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.04		mg/Kg-dry	241300	1	05/04/2017 20:38	JS
Barium	6.99	0.40		mg/Kg-dry	241300	1	05/04/2017 20:38	JS
Beryllium	0.05	0.04		mg/Kg-dry	241300	1	05/04/2017 20:38	JS
PERCENT MOISTURE D2216								
Percent Moisture	13.9	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: APCS-23
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 3:25:00 PM
Lab ID: 1705355-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	17.0	8.18		mg/Kg-dry	241300	1	05/04/2017 20:45	JS
Barium	53.3	0.55		mg/Kg-dry	241300	1	05/04/2017 20:45	JS
Beryllium	0.36	0.05		mg/Kg-dry	241300	1	05/04/2017 20:45	JS
PERCENT MOISTURE D2216								
Percent Moisture	11.0	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-03
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 10:50:00 AM
Lab ID: 1705355-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.39		mg/Kg-dry	241300	1	05/04/2017 20:51	JS
Barium	25.4	0.49		mg/Kg-dry	241300	1	05/04/2017 20:51	JS
Beryllium	0.18	0.05		mg/Kg-dry	241300	1	05/04/2017 20:51	JS
PERCENT MOISTURE D2216								
Percent Moisture	6.14	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-04
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 1:50:00 PM
Lab ID: 1705355-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.75		mg/Kg-dry	241300	1	05/04/2017 20:57	JS
Barium	55.2	0.45		mg/Kg-dry	241300	1	05/04/2017 20:57	JS
Beryllium	0.11	0.04		mg/Kg-dry	241300	1	05/04/2017 20:57	JS
PERCENT MOISTURE D2216								
Percent Moisture	8.51	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-05
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 1:55:00 PM
Lab ID: 1705355-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.96		mg/Kg-dry	241300	1	05/04/2017 21:03	JS
Barium	75.1	0.40		mg/Kg-dry	241300	1	05/04/2017 21:03	JS
Beryllium	0.12	0.04		mg/Kg-dry	241300	1	05/04/2017 21:03	JS
PERCENT MOISTURE D2216								
Percent Moisture	11.4	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 5-May-17

Client: Georgia Power Company	Client Sample ID: EAPCS-06
Project Name: Plant Kraft Excavation	Collection Date: 5/3/2017 2:00:00 PM
Lab ID: 1705355-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.93		mg/Kg-dry	241300	1	05/04/2017 21:09	JS
Barium	69.8	0.53		mg/Kg-dry	241300	1	05/04/2017 21:09	JS
Beryllium	0.10	0.05		mg/Kg-dry	241300	1	05/04/2017 21:09	JS
PERCENT MOISTURE D2216								
Percent Moisture	8.35	0		wt%	R342356	1	05/05/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1705355

ANALYTICAL QC SUMMARY REPORT

BatchID: 241300

Sample ID: MB-241300	Client ID:	Units: ug/Kg	Prep Date: 05/04/2017	Run No: 342266							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498339							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-241300	Client ID:	Units: ug/Kg	Prep Date: 05/04/2017	Run No: 342266							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498340							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4294	1500	5000	113.6	83.6	80	120				
Barium	5010	500	5000		100	80	120				
Beryllium	5035	50.0	5000		101	80	120				

Sample ID: 1705354-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 05/04/2017	Run No: 342266							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498343							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	10.19	5.83	3.885	8.170	51.9	75	125				S
Barium	146.3	1.94	3.885	141.6	122	75	125				
Beryllium	5.206	0.19	3.885	0.8569	112	75	125				

Sample ID: 1705354-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 05/04/2017	Run No: 342266							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 241300	Analysis Date: 05/04/2017	Seq No: 7498344							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	12.14	5.81	3.875	8.170	102	75	125	12.14	0	20	
Barium	142.4	1.94	3.875	141.6	19.8	75	125	142.4	0	20	S
Beryllium	5.154	0.19	3.875	0.8569	111	75	125	5.154	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



COMPANY: Georgia Power Company		ADDRESS: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308				ANALYSIS REQUESTED							Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers																														
PHONE: 770-296-9648		FAX: Forrest.Howard@Resolutions.com				<table border="1" style="width:100%; height: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">EPA6020 metals</td> <td style="width: 10%;">HSRA</td> <td style="width: 10%;">As</td> <td style="width: 10%;">Ba</td> <td style="width: 10%;">Ca</td> <td style="width: 10%;">Cd</td> <td style="width: 10%;">Cr</td> <td style="width: 10%;">Cu</td> <td style="width: 10%;">Fe</td> <td style="width: 10%;">Hg</td> <td style="width: 10%;">Mn</td> <td style="width: 10%;">Ni</td> <td style="width: 10%;">Pb</td> <td style="width: 10%;">Se</td> <td style="width: 10%;">Zn</td> </tr> <tr> <td>As, Ba, Ca, Cd, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Se, Zn</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>									EPA6020 metals	HSRA	As	Ba	Ca	Cd	Cr	Cu	Fe	Hg	Mn	Ni	Pb	Se	Zn	As, Ba, Ca, Cd, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Se, Zn														
EPA6020 metals	HSRA	As	Ba	Ca	Cd										Cr	Cu	Fe	Hg	Mn	Ni	Pb	Se	Zn																					
As, Ba, Ca, Cd, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Se, Zn																																												
SAMPLED BY: Forrest Howard		SIGNATURE:				PRESERVATION (See codes)																																						
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	I	I											REMARKS																									
1	MR-01	5/10/17	1015		X	SO	X																																					
2	EAPCS-14	5/10/17	1350	X		SO		X																																				
3	EAPCS-15	5/10/17	1355	X		SO		X																																				
4	(H) APCS-07 APCS-19A	5/10/17	1510	X		SO		X																																				
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13																																												
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RELINQUISHED BY:		DATE/TIME: 5/10/17 1730	RECEIVED BY: To FedEx		DATE/TIME: 5/11/17		PROJECT INFORMATION							RECEIPT																														
1:			2:				PROJECT NAME: Plant Kraft Execution							Total # of Containers																														
2:			3:				PROJECT #: _____							Turnaround Time Request																														
3: _____							SITE ADDRESS: Plant Kraft, Port Westworth GA							<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other _____																														
SPECIAL INSTRUCTIONS/COMMENTS: Report to: Stephen Hillson, Forrest Howard, Lea Miller, Nick Hyman		SHIPMENT METHOD: (HSRA Metals Attached)		OUT / / VIA: _____		IN / / VIA: _____		INVOICE TO: GPC Environmental Affairs							STATE PROGRAM (if any): _____																													
		CLIENT FedEx UPS MAIL COURIER		GREYHOUND OTHER _____		SEND REPORT TO: in comments							E-mail? _____ Fax? _____																															
						INVOICE TO: GPC Environmental Affairs							DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																															
						(IF DIFFERENT FROM ABOVE)																																						
						QUOTE #: _____ PO#: _____																																						
						sent w/ AES FedEx account																																						

Analytical Environmental Services, Inc

Date: 15-May-17

Client: Georgia Power Company	Client Sample ID: APCS-19A
Project Name: Plant Kraft Excavation	Collection Date: 5/10/2017 3:10:00 PM
Lab ID: 1705A42-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.66		mg/Kg-dry	242467	5	05/12/2017 14:38	JR
Barium	40.3	0.58		mg/Kg-dry	242467	5	05/12/2017 14:38	JR
Beryllium	0.99	0.06		mg/Kg-dry	242467	5	05/12/2017 14:38	JR
PERCENT MOISTURE D2216								
Percent Moisture	28.1	0		wt%	R342962	1	05/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 29, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1703P02

Analytical Environmental Services, Inc. received 9 samples on 3/29/2017 7:50:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

Work Order: 1703P02

AES

3080 Presidential Drive Atlanta GA 30340-3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 3/28/17 Page 1 of 1

Form containing company information (Georgia Power Company), address (241 Ralph McGill Blvd), phone (770-296-9648), and a table of samples (APCS-01 to ASTCS-05) with columns for date, time, grab/composite/matrix, and analysis results.

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.
SPECIAL INSTRUCTIONS/COMMENTS: Report to: Stephen.wilson@resolute.enr.com
SHIPMENT METHOD: OUT / / VIA:
MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1703P02

Case Narrative

Metals Analysis by Method 6020B:

Due to sample matrix, samples 1703P02-001C, 002C, 003C required dilution during analysis resulting in elevated reporting limits for Beryllium.

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-01
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:00:00 PM
Lab ID: 1703P02-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.19		mg/Kg-dry	240148	5	03/29/2017 16:19	JS
Barium	7.28	2.40		mg/Kg-dry	240148	5	03/29/2017 16:19	JS
Beryllium	BRL	0.12		mg/Kg-dry	240148	5	03/29/2017 16:19	JS
PERCENT MOISTURE D2216								
Percent Moisture	6.39	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-02
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:02:00 PM
Lab ID: 1703P02-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.13		mg/Kg-dry	240148	5	03/29/2017 16:25	JS
Barium	10.9	2.04		mg/Kg-dry	240148	5	03/29/2017 16:25	JS
Beryllium	BRL	0.10		mg/Kg-dry	240148	5	03/29/2017 16:25	JS
PERCENT MOISTURE D2216								
Percent Moisture	5.66	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-03
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:04:00 PM
Lab ID: 1703P02-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	5.65		mg/Kg-dry	240148	5	03/29/2017 16:31	JS
Barium	15.4	1.88		mg/Kg-dry	240148	5	03/29/2017 16:31	JS
Beryllium	BRL	0.09		mg/Kg-dry	240148	5	03/29/2017 16:31	JS
PERCENT MOISTURE D2216								
Percent Moisture	10.1	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-04
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:08:00 PM
Lab ID: 1703P02-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.51		mg/Kg-dry	240148	5	03/29/2017 17:11	JS
Barium	45.2	2.17		mg/Kg-dry	240148	5	03/29/2017 17:11	JS
Beryllium	0.19	0.11		mg/Kg-dry	240148	5	03/29/2017 18:03	JS
PERCENT MOISTURE D2216								
Percent Moisture	15.4	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-01
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:30:00 PM
Lab ID: 1703P02-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.87		mg/Kg-dry	240148	5	03/29/2017 17:17	JS
Barium	50.3	1.96		mg/Kg-dry	240148	5	03/29/2017 17:17	JS
Beryllium	0.19	0.10		mg/Kg-dry	240148	5	03/29/2017 17:17	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	240119	1	03/29/2017 11:40	RF
Surr: Dioctylphthalate	80.3	54.5-121		%REC	240119	1	03/29/2017 11:40	RF
PERCENT MOISTURE D2216								
Percent Moisture	11.0	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-02
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:32:00 PM
Lab ID: 1703P02-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.71		mg/Kg-dry	240148	5	03/29/2017 17:24	JS
Barium	27.3	2.57		mg/Kg-dry	240148	5	03/29/2017 17:24	JS
Beryllium	0.27	0.13		mg/Kg-dry	240148	5	03/29/2017 17:24	JS
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	44	8.1		mg/Kg-dry	240119	1	03/29/2017 13:12	RF
Surr: Dioctylphthalate	94.5	54.5-121		%REC	240119	1	03/29/2017 13:12	RF
PERCENT MOISTURE D2216								
Percent Moisture	17.4	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-03
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:34:00 PM
Lab ID: 1703P02-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	11.6	6.07		mg/Kg-dry	240148	5	03/29/2017 17:30	JS
Barium	38.8	2.02		mg/Kg-dry	240148	5	03/29/2017 17:30	JS
Beryllium	0.25	0.10		mg/Kg-dry	240148	5	03/29/2017 17:30	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	240119	1	03/29/2017 12:03	RF
Surr: Dioctylphthalate	87.8	54.5-121		%REC	240119	1	03/29/2017 12:03	RF
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-04
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:36:00 PM
Lab ID: 1703P02-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	9.48	6.45		mg/Kg-dry	240148	5	03/29/2017 17:36	JS
Barium	63.5	2.15		mg/Kg-dry	240148	5	03/29/2017 17:36	JS
Beryllium	0.40	0.22		mg/Kg-dry	240148	5	03/29/2017 17:36	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.1		mg/Kg-dry	240119	1	03/29/2017 12:26	RF
Surr: Dioctylphthalate	92.9	54.5-121		%REC	240119	1	03/29/2017 12:26	RF
PERCENT MOISTURE D2216								
Percent Moisture	17.2	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-05
Project Name: Plant Kraft Excavation	Collection Date: 3/28/2017 2:38:00 PM
Lab ID: 1703P02-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.65		mg/Kg-dry	240148	5	03/29/2017 17:42	JS
Barium	33.6	2.55		mg/Kg-dry	240148	5	03/29/2017 17:42	JS
Beryllium	0.41	0.26		mg/Kg-dry	240148	5	03/29/2017 17:42	JS
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.8		mg/Kg-dry	240119	1	03/29/2017 12:49	RF
Surr: Dioctylphthalate	82.4	54.5-121		%REC	240119	1	03/29/2017 12:49	RF
PERCENT MOISTURE D2216								
Percent Moisture	24.0	0		wt%	R339563	1	03/29/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703P02

ANALYTICAL QC SUMMARY REPORT

BatchID: 240119

Sample ID: MB-240119	Client ID:	Units: mg/Kg	Prep Date: 03/28/2017	Run No: 339430							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240119	Analysis Date: 03/28/2017	Seq No: 7425505							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.587 0 3.300 78.4 54.5 121

Sample ID: LCS-240119	Client ID:	Units: mg/Kg	Prep Date: 03/28/2017	Run No: 339430							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240119	Analysis Date: 03/28/2017	Seq No: 7425506							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 26.17 6.7 33.30 2.184 72.0 54.6 120
 Surr: Dioctylphthalate 2.772 0 3.330 83.2 54.5 121

Sample ID: 1703L09-012CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/28/2017	Run No: 339430							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240119	Analysis Date: 03/28/2017	Seq No: 7425508							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 28.52 8.0 39.53 72.1 40.6 122
 Surr: Dioctylphthalate 2.920 0 3.953 73.9 54.5 121

Sample ID: 1703L09-012CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/28/2017	Run No: 339430							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240119	Analysis Date: 03/28/2017	Seq No: 7425509							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 31.50 8.0 39.53 79.7 40.6 122 28.52 9.93 29.9
 Surr: Dioctylphthalate 3.069 0 3.953 77.6 54.5 121 2.920 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703P02

ANALYTICAL QC SUMMARY REPORT

BatchID: 240148

Sample ID: MB-240148	Client ID:	Units: ug/Kg	Prep Date: 03/28/2017	Run No: 339556							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240148	Analysis Date: 03/29/2017	Seq No: 7425834							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-240148	Client ID:	Units: ug/Kg	Prep Date: 03/28/2017	Run No: 339556							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240148	Analysis Date: 03/29/2017	Seq No: 7425835							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500	5000		98.8	80	120				
Barium	5200	500	5000		104	80	120				
Beryllium	5525	50.0	5000		110	80	120				

Sample ID: 1703M82-008CMS	Client ID:	Units: ug/Kg	Prep Date: 03/28/2017	Run No: 339556							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240148	Analysis Date: 03/29/2017	Seq No: 7426081							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	30600	4075	897.7	81.7	75	125				
Barium	13850	2040	4075	9506	107	75	125				
Beryllium	4128	204	4075		101	75	125				

Sample ID: 1703M82-008CMSD	Client ID:	Units: ug/Kg	Prep Date: 03/28/2017	Run No: 339556							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240148	Analysis Date: 03/29/2017	Seq No: 7426043							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	30500	4072	897.7	78.5	75	125	4228	0	20	
Barium	13390	2040	4072	9506	95.3	75	125	13850	3.39	20	
Beryllium	4355	204	4072		107	75	125	4128	5.36	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 31, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1703R09

Analytical Environmental Services, Inc. received 5 samples on 3/30/2017 10:40:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1703R09

Date: 3/29/17 Page 1 of 1

Form containing company information (Georgia Power Company), sample details (SS-02, APC5-05, etc.), analysis requested, preservation codes, and receipt information.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: SS-02
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 9:00:00 AM
Lab ID: 1703R09-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.91		mg/Kg-dry	240283	1	03/31/2017 01:37	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.7	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-05
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:15:00 PM
Lab ID: 1703R09-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.13		mg/Kg-dry	240283	1	03/31/2017 01:40	JR
Barium	14.8	0.48		mg/Kg-dry	240283	1	03/31/2017 18:44	JS
Beryllium	0.06	0.05		mg/Kg-dry	240283	1	03/31/2017 18:44	JS
PERCENT MOISTURE D2216								
Percent Moisture	8.14	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-06
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:30:00 PM
Lab ID: 1703R09-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.58		mg/Kg-dry	240283	1	03/31/2017 01:43	JR
Barium	137	1.01		mg/Kg-dry	240283	2	03/31/2017 19:16	JS
Beryllium	0.54	0.05		mg/Kg-dry	240283	1	03/31/2017 18:50	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.8		mg/Kg-dry	240302	1	03/30/2017 22:54	RF
Surr: Dioctylphthalate	84.6	54.5-121		%REC	240302	1	03/30/2017 22:54	RF
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-07
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:35:00 PM
Lab ID: 1703R09-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	10.2	6.93		mg/Kg-dry	240283	1	03/31/2017 16:03	JR
Barium	29.4	0.46		mg/Kg-dry	240283	1	03/31/2017 18:56	JS
Beryllium	0.29	0.05		mg/Kg-dry	240283	1	03/31/2017 18:56	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	240302	1	03/30/2017 22:07	RF
Surr: Dioctylphthalate	76.3	54.5-121		%REC	240302	1	03/30/2017 22:07	RF
PERCENT MOISTURE D2216								
Percent Moisture	15.2	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-08
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:40:00 PM
Lab ID: 1703R09-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	6.48		mg/Kg-dry	240283	1	03/31/2017 01:50	JR
Barium	21.9	0.43		mg/Kg-dry	240283	1	03/31/2017 19:02	JS
Beryllium	0.17	0.04		mg/Kg-dry	240283	1	03/31/2017 19:02	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	240302	1	03/30/2017 22:31	RF
Surr: Dioctylphthalate	75.6	54.5-121		%REC	240302	1	03/30/2017 22:31	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.4	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 240283

Sample ID: MB-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339650							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428173							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500

Sample ID: MB-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339780							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium BRL 500
 Beryllium BRL 50.0

Sample ID: LCS-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339650							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428174							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5222 5000 5000 104 80 120

Sample ID: LCS-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339780							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432286							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium 5020 500 5000 100 80 120
 Beryllium 4574 50.0 5000 91.5 80 120

Sample ID: 1703P26-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339650							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428177							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 8.102 6.24 4.158 3.740 105 75 125

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 240283

Sample ID: 1703P26-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339780							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432288							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	35.11	0.42	4.158	36.77	-40.0	75	125				S
Beryllium	4.128	0.04	4.158	0.2427	93.5	75	125				

Sample ID: 1703P26-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339650							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428178							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	8.741	6.25	4.169	3.740	120	75	125	8.102	7.59	20	
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Sample ID: 1703P26-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339780							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432289							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	41.24	0.42	4.169	36.77	107	75	125	35.11	16.1	20	
Beryllium	4.078	0.04	4.169	0.2427	92.0	75	125	4.128	1.22	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 240302

Sample ID: MB-240302	Client ID:	Units: mg/Kg	Prep Date: 03/30/2017	Run No: 339666							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429770							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.743 0 3.300 83.1 54.5 121

Sample ID: LCS-240302	Client ID:	Units: mg/Kg	Prep Date: 03/30/2017	Run No: 339666							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429773							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 27.31 6.7 33.30 82.0 54.6 120
 Surr: Dioctylphthalate 2.626 0 3.330 78.9 54.5 121

Sample ID: 1703Q30-004BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/30/2017	Run No: 339666							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429776							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 45.40 7.1 35.43 14.33 87.7 40.6 122
 Surr: Dioctylphthalate 2.748 0 3.543 77.6 54.5 121

Sample ID: 1703Q30-004BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/30/2017	Run No: 339666							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429777							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 46.80 7.1 35.43 14.33 91.6 40.6 122 45.40 3.03 29.9
 Surr: Dioctylphthalate 3.010 0 3.543 85.0 54.5 121 2.748 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 14, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704A75

Analytical Environmental Services, Inc. received 2 samples on 4/13/2017 7:40:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
 3080 Presidential Drive Atlanta, GA 30340-3704
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 170475

Date: 4/12/17 Page 1 of 1

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McBill Blvd SE Bldg 85 Atlanta, GA 30308</u>					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers						
PHONE: <u>770 246 9848</u>		EMAIL: <u>forrest.howard@reschiteam.com</u>					PRESERVATION (see codes)													REMARKS					
SAMPLED BY: <u>Forrest Howard</u>		SIGNATURE:																							
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)																			
		DATE	TIME																						
1	<u>APCS-11</u>	<u>4/12/17</u>	<u>0920</u>	<u>X</u>		<u>SO</u>	<u>X</u>																		
2	<u>ASTCS-21</u>	<u>4/12/17</u>	<u>1500</u>	<u>X</u>		<u>SO</u>	<u>X</u>	<u>X</u>																	
3																									
4																									
5																									
6																									
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14																									
RELINQUISHED BY:		DATE/TIME: <u>4/12/17 1700</u>		RECEIVED BY: <u>FedEx</u>		DATE/TIME: <u>4/13/17 7:40 AM</u>		PROJECT INFORMATION										RECEIPT							
1.				2. <u>Marianne P...</u>				PROJECT NAME: <u>Plant Kraft Excavation</u>										Total # of Containers							
2.				3.				PROJECT #: _____										Turnaround Time (TAT) Request							
3.								SITE ADDRESS: <u>Plant Kraft, part north of G.A</u>										<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____							
SPECIAL INSTRUCTIONS/COMMENTS: <u>Report to: stephen.wilson@reschiteam.com LL Millet@southernco.com Forrest.howard@reschiteam.com</u>				SHIPMENT METHOD				SEND REPORT TO: <u>in comments</u>										STATE PROGRAM (if any): _____							
				OUT: <u>/ /</u> VIA: _____				INVOICE TO: <u>GPG Environmental Affairs</u>										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>							
				IN: <u>/ /</u> VIA: _____				(IF DIFFERENT FROM ABOVE) <u>shipped w/ AES Account #</u>										DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>							
				client <u>FedEx</u> UPS US mail courier Greyhound				QUOTE #: _____ PO#: _____																	
				Account Number other: _____																					
Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.																									

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
 Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None
 White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 14-Apr-17

Client: Georgia Power Company	Client Sample ID: APCS-11
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2017 9:20:00 AM
Lab ID: 1704A75-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.52		mg/Kg-dry	240900	1	04/13/2017 16:31	JS
Barium	20.0	0.37		mg/Kg-dry	240900	1	04/13/2017 16:31	JS
Beryllium	0.24	0.04		mg/Kg-dry	240900	1	04/13/2017 16:31	JS
PERCENT MOISTURE D2216								
Percent Moisture	20.8	0		wt%	R340682	1	04/13/2017 15:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Apr-17

Client: Georgia Power Company	Client Sample ID: ASTCS-21
Project Name: Plant Kraft Excavation	Collection Date: 4/12/2017 3:00:00 PM
Lab ID: 1704A75-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	5.10		mg/Kg-dry	240900	1	04/13/2017 16:37	JS
Barium	23.3	0.34		mg/Kg-dry	240900	1	04/13/2017 16:37	JS
Beryllium	0.21	0.03		mg/Kg-dry	240900	1	04/13/2017 16:37	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.6		mg/Kg-dry	240907	1	04/13/2017 15:05	RF
Surr: Dioctylphthalate	67.7	54.5-121		%REC	240907	1	04/13/2017 15:05	RF
PERCENT MOISTURE D2216								
Percent Moisture	21.7	0		wt%	R340682	1	04/13/2017 15:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704A75

ANALYTICAL QC SUMMARY REPORT

BatchID: 240900

Sample ID: MB-240900	Client ID:	Units: ug/Kg	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453501							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	7500									
Barium	BRL	500									
Beryllium	BRL	50.0									

Sample ID: LCS-240900	Client ID:	Units: ug/Kg	Prep Date: 04/12/2017	Run No: 340568							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453502							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4317	1000	5000	199.8	82.3	80	120				
Barium	4922	500	5000		98.4	80	120				
Beryllium	4549	50.0	5000		91.0	80	120				

Sample ID: 1704917-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453504							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7694	7690	5492	2373	96.9	75	125				
Barium	40420	549	5492	33980	117	75	125				
Beryllium	5429	54.9	5492	196.2	95.3	75	125				

Sample ID: 1704917-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453505							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	7405	7320	5230	2373	96.2	75	125	7694	3.83	20	
Barium	40670	523	5230	33980	128	75	125	40420	0.603	20	S
Beryllium	5298	52.3	5230	196.2	97.5	75	125	5429	2.45	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704A75

ANALYTICAL QC SUMMARY REPORT

BatchID: 240907

Sample ID: MB-240907	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7453229							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.743 0 3.300 83.1 54.5 121

Sample ID: LCS-240907	Client ID:	Units: mg/Kg	Prep Date: 04/12/2017	Run No: 340563							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7453407							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 23.91 6.7 33.30 71.8 54.6 120
 Surr: Dioctylphthalate 2.752 0 3.330 82.6 54.5 121

Sample ID: 1704784-002CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7454711							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 99.69 8.0 39.52 107.2 -19.0 40.6 122 S
 Surr: Dioctylphthalate 3.330 0 3.952 84.3 54.5 121

Sample ID: 1704784-002CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 04/12/2017	Run No: 340563							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240907	Analysis Date: 04/12/2017	Seq No: 7454712							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 111.1 8.0 39.52 107.2 9.98 40.6 122 99.69 10.9 29.9 S
 Surr: Dioctylphthalate 3.678 0 3.952 93.1 54.5 121 3.330 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 11, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708A51

Analytical Environmental Services, Inc. received 10 samples on 8/10/2017 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

3080 Presidential Drive Atlanta, GA 30340-3704

Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1708A51

Date: 8/9/17 Page 1 of 1

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE Bldg 5 Atlanta GA 30308</u>					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers																		
PHONE: <u>770 296 9648</u>		EMAIL: <u>Ferrest.howard@aes.com</u>					<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> {PA 626 AS 626 BS </div> <div style="width: 80%;"> <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr> <th colspan="10">PRESERVATION (see codes)</th> </tr> <tr> <td style="text-align: center;">I</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> </div> </div>													PRESERVATION (see codes)										I							
PRESERVATION (see codes)																																					
I																																					
SAMPLED BY: <u>Ferrest Howard</u>		SIGNATURE:																																			
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)											REMARKS																				
		DATE	TIME																																		
1	<u>SRCS-01</u>	<u>8/9/17</u>	<u>0915</u>	<u>X</u>		<u>SO</u>	<u>X</u>												<u>1</u>																		
2	<u>SRCS-02</u>	<u>8/9/17</u>	<u>0918</u>	<u>X</u>		<u>SO</u>	<u>X</u>												<u>1</u>																		
3	<u>LFCS-02</u>	<u>8/9/17</u>	<u>1435</u>	<u>X</u>		<u>SO</u>	<u>X</u>												<u>1</u>																		
4	<u>LFCS-03</u>	<u>8/9/17</u>	<u>1437</u>	<u>X</u>		<u>SO</u>	<u>X</u>												<u>1</u>																		
5	<u>LFCS-04</u>	<u>8/9/17</u>	<u>1440</u>	<u>X</u>		<u>SO</u>	<u>X</u>												<u>1</u>																		
6	<u>LFCS-05</u>	<u>8/9/17</u>	<u>1442</u>	<u>X</u>		<u>SO</u>	<u>X</u>												<u>1</u>																		
7	<u>LFCS-07</u>	<u>8/9/17</u>	<u>1505</u>	<u>X</u>		<u>SO</u>	<u>X</u>												<u>1</u>																		
8	<u>LFCS-08</u>	<u>8/9/17</u>	<u>1508</u>	<u>X</u>		<u>SO</u>	<u>X</u>												<u>1</u>																		
9	<u>LFCS-09</u>	<u>8/9/17</u>	<u>1510</u>	<u>X</u>		<u>SO</u>	<u>X</u>												<u>1</u>																		
10	<u>LFCS-06</u>	<u>8/9/17</u>	<u>1455</u>	<u>X</u>		<u>SO</u>	<u>X</u>												<u>1</u>																		
11																																					
12																																					
13																																					
14																																					
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT																			
1.		<u>8/9/17 1700</u>		1. <u>To Fedex</u>		<u>8/10/17 10:30</u>		PROJECT NAME: <u>Pest Kieft Excavation</u>										Total # of Containers <u>10</u>																			
2.				2.		<u>8/10/17 10:30</u>		PROJECT #:										Turnaround Time (TAT) Request																			
3.				3.				SITE ADDRESS: <u>155 cross gate Rd West Workwith GA</u>										<input type="checkbox"/> Standard 5 Business Days																			
								SEND REPORT TO: <u>in comments</u>										<input type="checkbox"/> 2 Business Day Rush																			
								INVOICE TO:										<input checked="" type="checkbox"/> Next Business Day Rush																			
								(IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same-Day Rush (auth req.)																			
								<u>GRC Environmental Affairs</u>										<input type="checkbox"/> Other _____																			
								<u>AES Fedex account used</u>										STATE PROGRAM (if any): _____																			
								QUOTE #:										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																			
								PO#:										DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> O																			
<p>Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.</p> <p style="text-align: right;">Page 2 of 15</p>																																					

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+H = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1708A51

Case Narrative

Per Forrest Howard via phone 8/10/2017 11:35am, same day turnaround was required for samples "SRCS-01" and "SRCS-02."

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: SRCS-01
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 9:15:00 AM
Lab ID: 1708A51-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	18.8	5.96		mg/Kg-dry	246708	1	08/10/2017 15:23	JR
Barium	20.8	0.40		mg/Kg-dry	246708	1	08/10/2017 15:23	JR
PERCENT MOISTURE D2216								
Percent Moisture	1.91	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: SRCS-02
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 9:18:00 AM
Lab ID: 1708A51-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	98.9	6.78		mg/Kg-dry	246708	1	08/10/2017 15:29	JR
Barium	15.2	0.45		mg/Kg-dry	246708	1	08/10/2017 15:29	JR
PERCENT MOISTURE D2216								
Percent Moisture	1.70	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-02
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 2:35:00 PM
Lab ID: 1708A51-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.42		mg/Kg-dry	246708	1	08/10/2017 16:44	JR
Barium	22.3	0.50		mg/Kg-dry	246708	1	08/10/2017 16:44	JR
PERCENT MOISTURE D2216								
Percent Moisture	11.3	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-03
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 2:37:00 PM
Lab ID: 1708A51-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.09		mg/Kg-dry	246708	1	08/10/2017 16:51	JR
Barium	35.1	0.54		mg/Kg-dry	246708	1	08/10/2017 16:51	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-04
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 2:40:00 PM
Lab ID: 1708A51-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.67		mg/Kg-dry	246708	1	08/10/2017 16:57	JR
Barium	120	0.44		mg/Kg-dry	246708	1	08/10/2017 16:57	JR
PERCENT MOISTURE D2216								
Percent Moisture	13.6	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-05
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 2:42:00 PM
Lab ID: 1708A51-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.02		mg/Kg-dry	246708	1	08/10/2017 17:03	JR
Barium	69.6	0.54		mg/Kg-dry	246708	1	08/10/2017 17:03	JR
PERCENT MOISTURE D2216								
Percent Moisture	17.0	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-07
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 3:05:00 PM
Lab ID: 1708A51-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.76		mg/Kg-dry	246708	1	08/10/2017 17:09	JR
Barium	22.2	0.52		mg/Kg-dry	246708	1	08/10/2017 17:09	JR
PERCENT MOISTURE D2216								
Percent Moisture	15.0	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-08
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 3:08:00 PM
Lab ID: 1708A51-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B								
Arsenic	BRL	6.40		mg/Kg-dry	246708	1	08/10/2017 17:15	JR
Barium	39.7	0.43		mg/Kg-dry	246708	1	08/10/2017 17:15	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-09
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 3:10:00 PM
Lab ID: 1708A51-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	8.65		mg/Kg-dry	246708	1	08/10/2017 17:22	JR
Barium	27.6	0.58		mg/Kg-dry	246708	1	08/10/2017 17:22	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.8	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-17

Client: Georgia Power Company	Client Sample ID: LFCS-06
Project Name: Plant Kraft Excavation	Collection Date: 8/9/2017 2:55:00 PM
Lab ID: 1708A51-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.41		mg/Kg-dry	246708	1	08/10/2017 17:28	JR
Barium	42.5	0.43		mg/Kg-dry	246708	1	08/10/2017 17:28	JR
PERCENT MOISTURE D2216								
Percent Moisture	24.5	0		wt%	R349499	1	08/10/2017 15:30	VH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1708A51

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.5 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TR 8/10/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: 40ZWMGTLS

I certify that I have completed sections 16-27 (dated initials). BB 8/10/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BB 8/10/17
Page 14 of 15



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708A51

ANALYTICAL QC SUMMARY REPORT

BatchID: 246708

Sample ID: MB-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678588							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246708	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349401							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678589							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4688 1500 5000 93.8 80 120
 Barium 5135 500 5000 103 80 120

Sample ID: 1708897-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678591							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8.06 5.371 1.234 74.6 75 125 S
 Barium 39.30 0.54 5.371 30.05 172 75 125 S

Sample ID: 1708897-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 08/09/2017	Run No: 349401							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246708	Analysis Date: 08/09/2017	Seq No: 7678592							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 8.05 5.370 1.234 71.1 75 125 5.243 0 20 S
 Barium 41.82 0.54 5.370 30.05 219 75 125 39.30 6.23 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 16, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708E52

Analytical Environmental Services, Inc. received 3 samples on 8/15/2017 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



CHAIN OF CUSTODY

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill bldg SE B10185 Atlanta GA 30308</u>			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers																																																																																																																																																																																																																																																																																																																																																																																																							
PHONE: <u>770-296-9648</u>		EMAIL: <u>forrest.howard@aesatlanta.com</u>			<table border="1" style="width:100%; height: 100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; text-orientation: mixed;">EPA 6020 Bca</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="20" style="text-align: center;">PRESERVATION (see codes)</td> </tr> <tr> <td colspan="2">SAMPLED BY: <u>Forrest Howard</u></td> <td colspan="3">SIGNATURE: </td> <td colspan="10"></td> <td rowspan="2" style="text-align: center; vertical-align: middle;">REMARKS</td> </tr> <tr> <td>#</td> <td>SAMPLE ID</td> <td colspan="2">SAMPLED:</td> <td>GRAB</td> <td>COMPOSITE</td> <td>MATRIX (see codes)</td> <td colspan="13"></td> </tr> <tr> <td></td> <td></td> <td>DATE</td> <td>TIME</td> <td></td> <td></td> <td></td> <td colspan="13"></td> </tr> <tr> <td>1</td> <td><u>SRCS-02A</u></td> <td><u>8/14/17</u></td> <td><u>1015</u></td> <td><u>X</u></td> <td></td> <td><u>SO</u></td> <td><u>X</u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>2</td> <td><u>SRCS-02A-N</u></td> <td><u>8/14/17</u></td> <td><u>1018</u></td> <td><u>X</u></td> <td></td> <td><u>SO</u></td> <td><u>X</u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>3</td> <td><u>SRCS-02A-W</u></td> <td><u>8/14/17</u></td> <td><u>1020</u></td> <td><u>X</u></td> <td></td> <td><u>SO</u></td> <td><u>X</u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												EPA 6020 Bca																					PRESERVATION (see codes)																				SAMPLED BY: <u>Forrest Howard</u>		SIGNATURE:													REMARKS	#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)																DATE	TIME																	1	<u>SRCS-02A</u>	<u>8/14/17</u>	<u>1015</u>	<u>X</u>		<u>SO</u>	<u>X</u>														2	<u>SRCS-02A-N</u>	<u>8/14/17</u>	<u>1018</u>	<u>X</u>		<u>SO</u>	<u>X</u>														3	<u>SRCS-02A-W</u>	<u>8/14/17</u>	<u>1020</u>	<u>X</u>		<u>SO</u>	<u>X</u>														4																					5																					6																					7																					8																					9																					10																					11																					12																					13																					14																				
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RELINQUISHED BY:		DATE/TIME: <u>8/14/17 1700</u>	RECEIVED BY: <u>To FedEx</u>	DATE/TIME: <u>8/15/17 10:25</u>	PROJECT INFORMATION					RECEIPT		
1.			2.			PROJECT NAME: <u>Plant Kraft Excavator</u>					Total # of Containers <u>3</u>	
2.			3.			PROJECT #: _____					Turnaround Time (TAT) Request	
3.					SITE ADDRESS: <u>155 crossgate Rd, Port Wentworth GA</u>					<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____		
SPECIAL INSTRUCTIONS/COMMENTS:			SHIPMENT METHOD		INVOICE TO: <u>GPC Environmental Affairs</u>					STATE PROGRAM (if any): _____		
			OUT: <u>/ /</u> VIA: _____		(IF DIFFERENT FROM ABOVE)					E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>		
			IN: <u>client</u> <input checked="" type="radio"/> FedEx <input type="radio"/> UPS <input type="radio"/> US mail <input type="radio"/> courier <input type="radio"/> Greyhound		<u>AES FedEx account used</u> QUOTE #: _____ PO#: _____					DATA PACKAGE: <input type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IVO		
			other: _____									

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
 Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 16-Aug-17

Client: Georgia Power Company	Client Sample ID: SRCS-02A
Project Name: Plant Kraft Excavation	Collection Date: 8/14/2017 10:15:00 AM
Lab ID: 1708E52-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.96		mg/Kg-dry	246962	10	08/16/2017 12:33	JR
Barium	5.62	4.64		mg/Kg-dry	246962	10	08/16/2017 12:33	JR
PERCENT MOISTURE D2216								
Percent Moisture	8.08	0		wt%	R349915	1	08/16/2017 14:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Aug-17

Client: Georgia Power Company	Client Sample ID: SRCS-02A-N
Project Name: Plant Kraft Excavation	Collection Date: 8/14/2017 10:18:00 AM
Lab ID: 1708E52-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	25.5	7.85		mg/Kg-dry	246962	10	08/16/2017 13:05	JR
Barium	8.22	5.23		mg/Kg-dry	246962	10	08/16/2017 13:05	JR
PERCENT MOISTURE D2216								
Percent Moisture	5.59	0		wt%	R349915	1	08/16/2017 14:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Aug-17

Client: Georgia Power Company	Client Sample ID: SRCS-02A-W
Project Name: Plant Kraft Excavation	Collection Date: 8/14/2017 10:20:00 AM
Lab ID: 1708E52-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.32		mg/Kg-dry	246962	10	08/16/2017 13:11	JR
Barium	11.6	4.22		mg/Kg-dry	246962	10	08/16/2017 13:11	JR
PERCENT MOISTURE D2216								
Percent Moisture	10.5	0		wt%	R349915	1	08/16/2017 14:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Georgia Power Company

AES Work Order Number: 1708E52

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 2.7 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TR 8/15/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). BB 8/15/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BB 8/15/17



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708E52

ANALYTICAL QC SUMMARY REPORT

BatchID: 246962

Sample ID: MB-246962	Client ID:	Units: ug/Kg	Prep Date: 08/15/2017	Run No: 349920							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 246962	Analysis Date: 08/16/2017	Seq No: 7689187							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500
 Barium BRL 500

Sample ID: LCS-246962	Client ID:	Units: ug/Kg	Prep Date: 08/15/2017	Run No: 349920							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246962	Analysis Date: 08/16/2017	Seq No: 7689188							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4610 1500 5000 92.2 80 120
 Barium 4944 500 5000 98.9 80 120

Sample ID: 1708E52-001AMS	Client ID: SRCS-02A	Units: mg/Kg-dry	Prep Date: 08/15/2017	Run No: 349920							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 246962	Analysis Date: 08/16/2017	Seq No: 7689190							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 8.070 6.93 4.619 3.253 104 75 125
 Barium 10.90 4.62 4.619 5.615 114 75 125

Sample ID: 1708E52-001AMSD	Client ID: SRCS-02A	Units: mg/Kg-dry	Prep Date: 08/15/2017	Run No: 349920							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 246962	Analysis Date: 08/16/2017	Seq No: 7689191							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 8.871 6.96 4.640 3.253 121 75 125 8.070 9.46 20
 Barium 11.80 4.64 4.640 5.615 133 75 125 10.90 8.00 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

**Georgia Power
2480 Maner Road
Atlanta, GA 30339**

Attention: Mr. Joju Abraham

Report Number: AZI0050

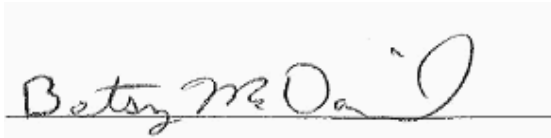
September 13, 2016

Project: CCR Event

Project #:Plant Kraft

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:



Project Manager

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All test results relate only to the samples analyzed.



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Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KMW-5	AZI0050-01	Ground Water	09/01/16 14:30	09/02/16 09:05
KMW-6	AZI0050-02	Ground Water	09/01/16 16:30	09/02/16 09:05
Dup-1	AZI0050-03	Ground Water	09/01/16 00:00	09/02/16 09:05
KMW-2	AZI0050-04	Ground Water	09/01/16 13:10	09/02/16 09:05
KMW-7	AZI0050-05	Ground Water	09/01/16 14:41	09/02/16 09:05
KMW-1	AZI0050-06	Ground Water	09/01/16 15:55	09/02/16 09:05
FBL090116	AZI0050-07	DI Water	09/01/16 16:35	09/02/16 09:05
EQBL090116	AZI0050-08	DI Water	09/01/16 16:45	09/02/16 09:05



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
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 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Project: CCR Event

Client ID: KMW-5

Lab Number ID: AZI0050-01

Date/Time Sampled: 9/1/2016 2:30:00PM

Date/Time Received: 9/2/2016 9:05:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	4540	25	10	mg/L	SM 2540 C		1	09/07/16 14:20	09/07/16 14:20	6090156	JPT
Inorganic Anions											
Chloride	2200	25	1.4	mg/L	EPA 300.0	B-01	100	09/05/16 10:11	09/07/16 02:15	6090088	RLC
Fluoride	0.34	0.30	0.02	mg/L	EPA 300.0		1	09/05/16 10:11	09/05/16 18:59	6090088	RLC
Sulfate	430	100	5.1	mg/L	EPA 300.0		100	09/05/16 10:11	09/07/16 02:15	6090088	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Arsenic	0.0088	0.0050	0.0016	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Barium	0.0644	0.0100	0.0004	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Beryllium	0.0007	0.0030	0.00008	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Boron	0.695	0.100	0.0064	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Calcium	223	25.0	1.55	mg/L	EPA 6020B		50	09/06/16 10:15	09/08/16 17:47	6090062	CSW
Chromium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Cobalt	0.0203	0.0100	0.0005	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Lead	0.0001	0.0050	0.0001	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Selenium	0.0036	0.0100	0.0010	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Lithium	0.0173	0.0500	0.0021	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:14	6090062	CSW
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	09/06/16 11:30	09/06/16 16:21	6090078	MTC



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Project: CCR Event

Client ID: KMW-6

Lab Number ID: AZI0050-02

Date/Time Sampled: 9/1/2016 4:30:00PM

Date/Time Received: 9/2/2016 9:05:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	4920	25	10	mg/L	SM 2540 C		1	09/07/16 19:40	09/07/16 19:40	6090134	JPT
Inorganic Anions											
Chloride	2400	25	1.4	mg/L	EPA 300.0	B-01	100	09/05/16 10:11	09/07/16 02:35	6090088	RLC
Fluoride	0.26	0.30	0.02	mg/L	EPA 300.0	J	1	09/05/16 10:11	09/05/16 20:01	6090088	RLC
Sulfate	400	100	5.1	mg/L	EPA 300.0		100	09/05/16 10:11	09/07/16 02:35	6090088	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Arsenic	0.0020	0.0050	0.0016	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Barium	0.0794	0.0100	0.0004	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Beryllium	0.0001	0.0030	0.00008	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Boron	0.898	0.100	0.0064	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Calcium	242	25.0	1.55	mg/L	EPA 6020B		50	09/06/16 10:15	09/08/16 17:53	6090062	CSW
Chromium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Cobalt	0.0007	0.0100	0.0005	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Lead	ND	0.0050	0.0001	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Selenium	0.0021	0.0100	0.0010	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Lithium	0.0418	0.0500	0.0021	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:20	6090062	CSW
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	09/06/16 11:30	09/06/16 16:23	6090078	MTC



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Project: CCR Event

Client ID: Dup-1

Lab Number ID: AZI0050-03

Date/Time Sampled: 9/1/2016 12:00:00AM

Date/Time Received: 9/2/2016 9:05:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	4400	25	10	mg/L	SM 2540 C		1	09/07/16 19:40	09/07/16 19:40	6090134	JPT
Inorganic Anions											
Chloride	2400	25	1.4	mg/L	EPA 300.0	B-01	100	09/05/16 10:11	09/07/16 02:56	6090088	RLC
Fluoride	0.34	0.30	0.02	mg/L	EPA 300.0		1	09/05/16 10:11	09/05/16 21:44	6090088	RLC
Sulfate	470	100	5.1	mg/L	EPA 300.0		100	09/05/16 10:11	09/07/16 02:56	6090088	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Arsenic	0.0086	0.0050	0.0016	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Barium	0.0635	0.0100	0.0004	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Beryllium	0.0007	0.0030	0.00008	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Boron	0.652	0.100	0.0064	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Calcium	220	25.0	1.55	mg/L	EPA 6020B		50	09/06/16 10:15	09/08/16 17:59	6090062	CSW
Chromium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Cobalt	0.0192	0.0100	0.0005	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Lead	0.0001	0.0050	0.0001	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Selenium	0.0031	0.0100	0.0010	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Lithium	0.0167	0.0500	0.0021	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:26	6090062	CSW
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	09/06/16 11:30	09/06/16 16:26	6090078	MTC



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Project: CCR Event

Client ID: KMW-2

Lab Number ID: AZI0050-04

Date/Time Sampled: 9/1/2016 1:10:00PM

Date/Time Received: 9/2/2016 9:05:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	286	25	10	mg/L	SM 2540 C		1	09/07/16 19:40	09/07/16 19:40	6090134	JPT
Inorganic Anions											
Chloride	120	1.2	0.07	mg/L	EPA 300.0	B-01	5	09/05/16 10:11	09/07/16 03:17	6090088	RLC
Fluoride	0.12	0.30	0.02	mg/L	EPA 300.0	J	1	09/05/16 10:11	09/05/16 22:05	6090088	RLC
Sulfate	73	5.0	0.26	mg/L	EPA 300.0		5	09/05/16 10:11	09/07/16 03:17	6090088	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Arsenic	0.0095	0.0050	0.0016	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Barium	0.0666	0.0100	0.0004	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Beryllium	ND	0.0030	0.00008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Boron	0.349	0.100	0.0064	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Calcium	8.90	0.500	0.0311	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Chromium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Cobalt	ND	0.0100	0.0005	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Lead	ND	0.0050	0.0001	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Selenium	ND	0.0100	0.0010	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Lithium	0.0044	0.0500	0.0021	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:31	6090062	CSW
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	09/06/16 11:30	09/06/16 16:28	6090078	MTC



PACE ANALYTICAL SERVICES, INC.

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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Project: CCR Event

Client ID: KMW-7

Lab Number ID: AZI0050-05

Date/Time Sampled: 9/1/2016 2:41:00PM

Date/Time Received: 9/2/2016 9:05:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	1960	25	10	mg/L	SM 2540 C		1	09/07/16 19:40	09/07/16 19:40	6090134	JPT
Inorganic Anions											
Chloride	920	12	0.70	mg/L	EPA 300.0	B-01	50	09/05/16 10:11	09/12/16 13:11	6090088	RLC
Fluoride	0.40	0.30	0.02	mg/L	EPA 300.0		1	09/05/16 10:11	09/05/16 22:26	6090088	RLC
Sulfate	310	50	2.6	mg/L	EPA 300.0		50	09/05/16 10:11	09/12/16 13:11	6090088	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Arsenic	0.0045	0.0050	0.0016	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Barium	0.0520	0.0100	0.0004	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Beryllium	0.0004	0.0030	0.00008	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Boron	0.579	0.100	0.0064	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Calcium	44.3	2.50	0.155	mg/L	EPA 6020B		5	09/06/16 10:15	09/08/16 18:05	6090062	CSW
Chromium	0.0010	0.0100	0.0009	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Cobalt	0.0014	0.0100	0.0005	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Lead	ND	0.0050	0.0001	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Selenium	0.0030	0.0100	0.0010	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Lithium	0.0034	0.0500	0.0021	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:37	6090062	CSW
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	09/07/16 08:50	09/07/16 15:55	6090123	MTC



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Project: CCR Event

Client ID: KMW-1

Lab Number ID: AZI0050-06

Date/Time Sampled: 9/1/2016 3:55:00PM

Date/Time Received: 9/2/2016 9:05:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	2820	25	10	mg/L	SM 2540 C		1	09/07/16 19:40	09/07/16 19:40	6090134	JPT
Inorganic Anions											
Chloride	1300	25	1.4	mg/L	EPA 300.0	B-01	100	09/05/16 10:11	09/07/16 03:58	6090088	RLC
Fluoride	0.60	0.30	0.02	mg/L	EPA 300.0		1	09/05/16 10:11	09/05/16 22:46	6090088	RLC
Sulfate	240	100	5.1	mg/L	EPA 300.0		100	09/05/16 10:11	09/07/16 03:58	6090088	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Arsenic	0.0081	0.0050	0.0016	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Barium	0.0614	0.0100	0.0004	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Beryllium	0.0021	0.0030	0.00008	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Boron	0.989	0.100	0.0064	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Cadmium	0.0001	0.0010	0.00007	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Calcium	119	25.0	1.55	mg/L	EPA 6020B		50	09/06/16 10:15	09/08/16 18:30	6090062	CSW
Chromium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Cobalt	0.0210	0.0100	0.0005	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Lead	0.0002	0.0050	0.0001	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Selenium	0.0050	0.0100	0.0010	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Thallium	0.0004	0.0010	0.0002	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Lithium	0.0172	0.0500	0.0021	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:43	6090062	CSW
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	09/07/16 08:50	09/07/16 15:57	6090123	MTC



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Georgia Power
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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Project: CCR Event

Client ID: FBL090116

Lab Number ID: AZI0050-07

Date/Time Sampled: 9/1/2016 4:35:00PM

Date/Time Received: 9/2/2016 9:05:00AM

Matrix: DI Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	09/07/16 19:40	09/07/16 19:40	6090134	JPT
Inorganic Anions											
Chloride	0.60	0.25	0.01	mg/L	EPA 300.0	B-01	1	09/05/16 10:11	09/05/16 23:07	6090088	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	09/05/16 10:11	09/05/16 23:07	6090088	RLC
Sulfate	0.38	1.0	0.05	mg/L	EPA 300.0	J	1	09/05/16 10:11	09/05/16 23:07	6090088	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Arsenic	ND	0.0050	0.0016	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Barium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Beryllium	ND	0.0030	0.00008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Boron	0.0065	0.100	0.0064	mg/L	EPA 6020B	J	1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Calcium	ND	0.500	0.0311	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Chromium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Cobalt	ND	0.0100	0.0005	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Lead	ND	0.0050	0.0001	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Selenium	ND	0.0100	0.0010	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Lithium	ND	0.0500	0.0021	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 19:49	6090062	CSW
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	09/07/16 08:50	09/07/16 15:59	6090123	MTC



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050
Client ID: EQBL090116
Date/Time Sampled: 9/1/2016 4:45:00PM
Matrix: DI Water

Project: CCR Event
Lab Number ID: AZI0050-08
Date/Time Received: 9/2/2016 9:05:00AM

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	09/07/16 19:40	09/07/16 19:40	6090134	JPT
Inorganic Anions											
Chloride	0.26	0.25	0.01	mg/L	EPA 300.0	B-01	1	09/05/16 10:11	09/05/16 23:28	6090088	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	09/05/16 10:11	09/05/16 23:28	6090088	RLC
Sulfate	ND	1.0	0.05	mg/L	EPA 300.0		1	09/05/16 10:11	09/05/16 23:28	6090088	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Arsenic	ND	0.0050	0.0016	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Barium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Beryllium	ND	0.0030	0.00008	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Boron	ND	0.100	0.0064	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Calcium	ND	0.500	0.0311	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Chromium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Cobalt	ND	0.0100	0.0005	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Lead	ND	0.0050	0.0001	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Selenium	ND	0.0100	0.0010	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Lithium	ND	0.0500	0.0021	mg/L	EPA 6020B		1	09/06/16 10:15	09/07/16 20:06	6090062	CSW
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	09/07/16 08:50	09/07/16 16:02	6090123	MTC



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6090134 - SM 2540 C											
Blank (6090134-BLK1)						Prepared & Analyzed: 09/07/16					
Total Dissolved Solids	ND	25	10	mg/L							
LCS (6090134-BS1)						Prepared & Analyzed: 09/07/16					
Total Dissolved Solids	375	25	10	mg/L	400.00		94	84-108			
Duplicate (6090134-DUP1)						Source: AZI0050-02 Prepared & Analyzed: 09/07/16					
Total Dissolved Solids	4860	25	10	mg/L		4920			1	10	
Duplicate (6090134-DUP2)						Source: AZI0051-03 Prepared & Analyzed: 09/07/16					
Total Dissolved Solids	393	25	10	mg/L		396			0.8	10	
Batch 6090156 - SM 2540 C											
Blank (6090156-BLK1)						Prepared & Analyzed: 09/07/16					
Total Dissolved Solids	ND	25	10	mg/L							
LCS (6090156-BS1)						Prepared & Analyzed: 09/07/16					
Total Dissolved Solids	398	25	10	mg/L	400.00		100	84-108			
Duplicate (6090156-DUP1)						Source: AZI0050-01 Prepared & Analyzed: 09/07/16					
Total Dissolved Solids	4530	25	10	mg/L		4540			0.3	10	



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Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Inorganic Anions - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6090088 - EPA 300.0											
Blank (6090088-BLK1)						Prepared & Analyzed: 09/05/16					
Chloride	0.05	0.25	0.01	mg/L							J
Fluoride	ND	0.30	0.02	mg/L							
Sulfate	ND	1.0	0.05	mg/L							
LCS (6090088-BS1)						Prepared & Analyzed: 09/05/16					
Chloride	10.1	0.25	0.01	mg/L	10.010		101	90-110			
Fluoride	10.0	0.30	0.02	mg/L	10.010		100	90-110			
Sulfate	10.2	1.0	0.05	mg/L	10.010		102	90-110			
Matrix Spike (6090088-MS1)						Source: AZI0050-01			Prepared & Analyzed: 09/05/16		
Chloride	466	0.25	0.01	mg/L	10.010	478	NR	90-110			QM-02
Fluoride	11.8	0.30	0.02	mg/L	10.010	0.34	114	90-110			QM-05
Sulfate	275	1.0	0.05	mg/L	10.010	291	NR	90-110			QM-02
Matrix Spike (6090088-MS2)						Source: AZI0059-03			Prepared: 09/05/16 Analyzed: 09/06/16		
Chloride	13.9	0.25	0.01	mg/L	10.010	3.33	105	90-110			
Fluoride	10.9	0.30	0.02	mg/L	10.010	0.20	107	90-110			
Sulfate	12.7	1.0	0.05	mg/L	10.010	2.66	101	90-110			
Matrix Spike Dup (6090088-MSD1)						Source: AZI0050-01			Prepared & Analyzed: 09/05/16		
Chloride	486	0.25	0.01	mg/L	10.010	478	84	90-110	4	15	QM-02
Fluoride	11.7	0.30	0.02	mg/L	10.010	0.34	114	90-110	0.4	15	QM-05
Sulfate	275	1.0	0.05	mg/L	10.010	291	NR	90-110	0.1	15	QM-02



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Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6090062 - EPA 3005A											
Blank (6090062-BLK1)						Prepared: 09/06/16 Analyzed: 09/07/16					
Antimony	ND	0.0030	0.0008	mg/L							
Arsenic	ND	0.0050	0.0016	mg/L							
Barium	ND	0.0100	0.0004	mg/L							
Beryllium	ND	0.0030	0.00008	mg/L							
Boron	ND	0.100	0.0064	mg/L							
Cadmium	ND	0.0010	0.00007	mg/L							
Calcium	ND	0.500	0.0311	mg/L							
Chromium	ND	0.0100	0.0009	mg/L							
Cobalt	ND	0.0100	0.0005	mg/L							
Copper	ND	0.0050	0.0005	mg/L							
Lead	ND	0.0050	0.0001	mg/L							
Molybdenum	ND	0.0100	0.0017	mg/L							
Nickel	ND	0.0050	0.0006	mg/L							
Selenium	ND	0.0100	0.0010	mg/L							
Silver	ND	0.0050	0.0005	mg/L							
Thallium	ND	0.0010	0.0002	mg/L							
Vanadium	ND	0.0100	0.0071	mg/L							
Zinc	ND	0.0100	0.0021	mg/L							
Lithium	ND	0.0500	0.0021	mg/L							
LCS (6090062-BS1)						Prepared: 09/06/16 Analyzed: 09/07/16					
Antimony	0.111	0.0030	0.0008	mg/L	0.10000		111	80-120			
Arsenic	0.101	0.0050	0.0016	mg/L	0.10000		101	80-120			
Barium	0.100	0.0100	0.0004	mg/L	0.10000		100	80-120			
Beryllium	0.104	0.0030	0.00008	mg/L	0.10000		104	80-120			
Boron	1.04	0.100	0.0064	mg/L	1.0000		104	80-120			
Cadmium	0.105	0.0010	0.00007	mg/L	0.10000		105	80-120			
Calcium	1.00	0.500	0.0311	mg/L	1.0000		100	80-120			
Chromium	0.104	0.0100	0.0009	mg/L	0.10000		104	80-120			
Cobalt	0.101	0.0100	0.0005	mg/L	0.10000		101	80-120			
Copper	0.101	0.0050	0.0005	mg/L	0.10000		101	80-120			
Lead	0.100	0.0050	0.0001	mg/L	0.10000		100	80-120			
Molybdenum	0.105	0.0100	0.0017	mg/L	0.10000		105	80-120			
Nickel	0.102	0.0050	0.0006	mg/L	0.10000		102	80-120			
Selenium	0.107	0.0100	0.0010	mg/L	0.10000		107	80-120			
Silver	0.101	0.0050	0.0005	mg/L	0.10000		101	80-120			
Thallium	0.101	0.0010	0.0002	mg/L	0.10000		101	80-120			
Vanadium	0.103	0.0100	0.0071	mg/L	0.10000		103	80-120			
Zinc	0.105	0.0100	0.0021	mg/L	0.10000		105	80-120			
Lithium	0.106	0.0500	0.0021	mg/L	0.10000		106	80-120			



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6090062 - EPA 3005A											
Matrix Spike (6090062-MS1)			Source: AZI0050-04			Prepared: 09/06/16 Analyzed: 09/07/16					
Antimony	0.106	0.0030	0.0008	mg/L	0.10000	ND	106	75-125			
Arsenic	0.111	0.0050	0.0016	mg/L	0.10000	0.0095	102	75-125			
Barium	0.157	0.0100	0.0004	mg/L	0.10000	0.0666	91	75-125			
Beryllium	0.0934	0.0030	0.00008	mg/L	0.10000	ND	93	75-125			
Boron	1.14	0.100	0.0064	mg/L	1.0000	0.349	79	75-125			
Cadmium	0.102	0.0010	0.00007	mg/L	0.10000	ND	102	75-125			
Calcium	9.88	0.500	0.0311	mg/L	1.0000	8.90	97	75-125			
Chromium	0.101	0.0100	0.0009	mg/L	0.10000	ND	101	75-125			
Cobalt	0.0950	0.0100	0.0005	mg/L	0.10000	ND	95	75-125			
Copper	0.0995	0.0050	0.0005	mg/L	0.10000	ND	99	75-125			
Lead	0.0961	0.0050	0.0001	mg/L	0.10000	ND	96	75-125			
Molybdenum	0.102	0.0100	0.0017	mg/L	0.10000	ND	102	75-125			
Nickel	0.104	0.0050	0.0006	mg/L	0.10000	0.0042	99	75-125			
Selenium	0.100	0.0100	0.0010	mg/L	0.10000	ND	100	75-125			
Silver	0.0927	0.0050	0.0005	mg/L	0.10000	ND	93	75-125			
Thallium	0.0952	0.0010	0.0002	mg/L	0.10000	ND	95	75-125			
Vanadium	0.104	0.0100	0.0071	mg/L	0.10000	ND	104	75-125			
Zinc	0.108	0.0100	0.0021	mg/L	0.10000	0.0026	105	75-125			
Lithium	0.102	0.0500	0.0021	mg/L	0.10000	0.0044	98	75-125			
Matrix Spike Dup (6090062-MSD1)			Source: AZI0050-04			Prepared: 09/06/16 Analyzed: 09/07/16					
Antimony	0.107	0.0030	0.0008	mg/L	0.10000	ND	107	75-125	0.8	20	
Arsenic	0.111	0.0050	0.0016	mg/L	0.10000	0.0095	102	75-125	0.003	20	
Barium	0.143	0.0100	0.0004	mg/L	0.10000	0.0666	77	75-125	9	20	
Beryllium	0.0897	0.0030	0.00008	mg/L	0.10000	ND	90	75-125	4	20	
Boron	1.05	0.100	0.0064	mg/L	1.0000	0.349	70	75-125	8	20	QM-02
Cadmium	0.101	0.0010	0.00007	mg/L	0.10000	ND	101	75-125	1	20	
Calcium	7.88	0.500	0.0311	mg/L	1.0000	8.90	NR	75-125	22	20	QM-02, QR-03
Chromium	0.102	0.0100	0.0009	mg/L	0.10000	ND	102	75-125	0.6	20	
Cobalt	0.0984	0.0100	0.0005	mg/L	0.10000	ND	98	75-125	3	20	
Copper	0.0997	0.0050	0.0005	mg/L	0.10000	ND	100	75-125	0.3	20	
Lead	0.0959	0.0050	0.0001	mg/L	0.10000	ND	96	75-125	0.2	20	
Molybdenum	0.0991	0.0100	0.0017	mg/L	0.10000	ND	99	75-125	3	20	
Nickel	0.103	0.0050	0.0006	mg/L	0.10000	0.0042	99	75-125	0.6	20	
Selenium	0.104	0.0100	0.0010	mg/L	0.10000	ND	104	75-125	4	20	
Silver	0.0963	0.0050	0.0005	mg/L	0.10000	ND	96	75-125	4	20	
Thallium	0.0952	0.0010	0.0002	mg/L	0.10000	ND	95	75-125	0.06	20	
Vanadium	0.103	0.0100	0.0071	mg/L	0.10000	ND	103	75-125	0.6	20	
Zinc	0.106	0.0100	0.0021	mg/L	0.10000	0.0026	103	75-125	2	20	



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6090062 - EPA 3005A											
Matrix Spike Dup (6090062-MSD1)			Source: AZI0050-04			Prepared: 09/06/16 Analyzed: 09/07/16					
Lithium	0.0974	0.0500	0.0021	mg/L	0.10000	0.0044	93	75-125	5	20	
Post Spike (6090062-PS1)			Source: AZI0050-04			Prepared: 09/06/16 Analyzed: 09/07/16					
Antimony	99.5			ug/L	100.00	0.100	99	80-120			
Arsenic	112			ug/L	100.00	9.50	102	80-120			
Barium	159			ug/L	100.00	66.6	92	80-120			
Beryllium	91.8			ug/L	100.00	0.0195	92	80-120			
Boron	1120			ug/L	1000.0	349	77	80-120			QM-02
Cadmium	101			ug/L	100.00	-0.0066	101	80-120			
Calcium	9570			ug/L	1000.0	8900	67	80-120			QM-02
Chromium	104			ug/L	100.00	0.586	104	80-120			
Cobalt	100			ug/L	100.00	0.0381	100	80-120			
Copper	101			ug/L	100.00	0.224	101	80-120			
Lead	93.7			ug/L	100.00	0.0558	94	80-120			
Molybdenum	101			ug/L	100.00	0.0984	101	80-120			
Nickel	104			ug/L	100.00	4.21	100	80-120			
Selenium	104			ug/L	100.00	0.394	103	80-120			
Silver	94.0			ug/L	100.00	-0.000050	94	80-120			
Thallium	93.2			ug/L	100.00	0.0002	93	80-120			
Vanadium	107			ug/L	100.00	2.25	104	80-120			
Zinc	104			ug/L	100.00	2.61	102	80-120			
Lithium	97.5			ug/L	100.00	4.38	93	80-120			
Batch 6090078 - EPA 7470A											
Blank (6090078-BLK1)						Prepared & Analyzed: 09/06/16					
Mercury	ND	0.00050	0.000041	mg/L							



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Report No.: AZI0050

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6090078 - EPA 7470A											
LCS (6090078-BS1)						Prepared & Analyzed: 09/06/16					
Mercury	0.00241	0.00050	0.000041	mg/L	2.5000E-3		96	80-120			
Matrix Spike (6090078-MS1)						Source: AZI0038-05 Prepared & Analyzed: 09/06/16					
Mercury	0.00241	0.00050	0.000041	mg/L	2.5000E-3	ND	96	75-125			
Matrix Spike Dup (6090078-MSD1)						Source: AZI0038-05 Prepared & Analyzed: 09/06/16					
Mercury	0.00234	0.00050	0.000041	mg/L	2.5000E-3	ND	93	75-125	3	20	
Post Spike (6090078-PS1)						Source: AZI0038-05 Prepared & Analyzed: 09/06/16					
Mercury	1.69			ug/L	1.6667	0.00587	101	80-120			
Batch 6090123 - EPA 7470A											
Blank (6090123-BLK1)						Prepared & Analyzed: 09/07/16					
Mercury	ND	0.00050	0.000041	mg/L							
LCS (6090123-BS1)						Prepared & Analyzed: 09/07/16					
Mercury	0.00241	0.00050	0.000041	mg/L	2.5000E-3		97	80-120			
Matrix Spike (6090123-MS1)						Source: AZI0050-05 Prepared & Analyzed: 09/07/16					
Mercury	0.00234	0.00050	0.000041	mg/L	2.5000E-3	ND	94	75-125			
Matrix Spike Dup (6090123-MSD1)						Source: AZI0050-05 Prepared & Analyzed: 09/07/16					
Mercury	0.00230	0.00050	0.000041	mg/L	2.5000E-3	ND	92	75-125	2	20	
Post Spike (6090123-PS1)						Source: AZI0050-05 Prepared & Analyzed: 09/07/16					
Mercury	1.70			ug/L	1.6667	0.0134	101	80-120			



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Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

September 13, 2016

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per Pace Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- QR-03** The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to suspected matrix interference and/or non-homogeneous sample matrix.
- QM-05** The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.
- QM-02** The spike recovery is outside acceptance limits due to insignificant spike amount as compared to sample concentration.
- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).
- B-01** Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

Pace Analytical Services, Inc
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201



CHAIN OF CUSTODY RECORD

CLIENT NAME: LEDGIA POWER CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 RALPH MCKILL BLYD SE BLDG 85 ATLANTA GA 30308 404-566-2289		REPORT TO: JOJO ABRHAM REQUESTED COMPLETION DATE:		ICC: MARIA PADILLA PO #: HEATH REGORRE LABORATORY@SOUTHWEST.COM		PROJECT NAME/STATE: PLANT KRAFT AP		PROJECT #: PHASE 2 CCE	
Collection DATE	Collection TIME	MATRIX CODE*	GRAB	SAMPLE IDENTIFICATION	ANALYSIS REQUESTED	CONTAINER TYPE	PREPARATION	CONTAINER TYPE	PRESERVATION
09/01/16	1430	GW	X	KMN-5	METALS APR 11/8/14 (EPA 6020/2470) CI, F, SO4 & TD5 (EPA 300.0 & SM 2540C) RADW 226 & 228 (SM-846 9215/9220)	P 3	3	P- PLASTIC	1- HCl, 56°C
09/01/16	1630	GW	X	KMN-6				A- AMBER GLASS	2- H2SO4, 56°C
09/01/16	---	GW	X	DUP-1				G- CLEAR GLASS	3- HNO3
09/01/16	1730	GW	X	KMN-2				V- VOA VIAL	4- NaOH, 56°C
09/01/16	1441	GW	X	KMN-7				S- STERILE	5- NaOH/ZnAc, 56°C
09/01/16	1555	GW	X	KMN-1				O- OTHER	6- Na2S2O3, 56°C
09/01/16	1635	GW	X	FBL090116					7- 56°C not frozen
09/01/16	1645	GW	X	EGBL090116					
SAMPLED BY AND TITLE: RECEIVED BY:					RELINQUISHED BY:	DATE/TIME:	DATE/TIME:	REMARKS/ADDITIONAL INFORMATION	
RECEIVED BY LAB: JOJO ABRHAM JOJO ABRHAM JOJO ABRHAM					RELINQUISHED BY:	DATE/TIME: 09/01/16	DATE/TIME:	LAB #: Entered into LIMS:	
RECEIVED BY LAB: JOJO ABRHAM JOJO ABRHAM JOJO ABRHAM					RELINQUISHED BY:	DATE/TIME: 09/01/16	DATE/TIME:	Tracking #: 809523380650	



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
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LOG-IN CHECKLIST

Printed: 9/13/2016 9:57:12AM

Attn: Mr. Joju Abraham

Client: Georgia Power

Project: CCR Event

Date Received: 09/02/16 09:05

Work Order: AZI0050

Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 8

#Containers: 25

Minimum Temp(C): 1.0

Maximum Temp(C): 1.0

Custody Seal(s) Used: Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 04, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Kraft AP Phase 2 CCR
Pace Project No.: 30195127

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on September 06, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft AP Phase 2 CCR
Pace Project No.: 30195127

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft AP Phase 2 CCR
Pace Project No.: 30195127

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30195127001	KMW-5	Water	09/01/16 14:30	09/06/16 08:50
30195127002	KMW-6	Water	09/01/16 16:30	09/06/16 08:50
30195127003	DUP-1	Water	09/01/16 00:01	09/06/16 08:50
30195127004	KMW-2	Water	09/01/16 13:10	09/06/16 08:50
30195127005	KMW-7	Water	09/01/16 14:41	09/06/16 08:50
30195127006	KMW-1	Water	09/01/16 15:55	09/06/16 08:50
30195127007	FBL090116	Water	09/01/16 16:35	09/06/16 08:50
30195127008	EQBL090116	Water	09/01/16 16:45	09/06/16 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft AP Phase 2 CCR
 Pace Project No.: 30195127

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30195127001	KMW-5	EPA 9315	WRR	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30195127002	KMW-6	EPA 9315	WRR	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30195127003	DUP-1	EPA 9315	WRR	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30195127004	KMW-2	EPA 9315	WRR	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30195127005	KMW-7	EPA 9315	WRR	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30195127006	KMW-1	EPA 9315	WRR	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30195127007	FBL090116	EPA 9315	WRR	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30195127008	EQBL090116	EPA 9315	WRR	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP Phase 2 CCR
 Pace Project No.: 30195127

Sample: KMW-5 Lab ID: 30195127001 Collected: 09/01/16 14:30 Received: 09/06/16 08:50 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.32 ± 0.356 (0.259) C:95% T:NA	pCi/L	09/28/16 09:31	13982-63-3	
Radium-228	EPA 9320	4.76 ± 1.10 (0.849) C:70% T:86%	pCi/L	09/23/16 12:35	15262-20-1	
Total Radium	Total Radium Calculation	6.08 ± 1.46 (1.11)	pCi/L	10/04/16 15:09	7440-14-4	

Sample: KMW-6 Lab ID: 30195127002 Collected: 09/01/16 16:30 Received: 09/06/16 08:50 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.349 ± 0.164 (0.212) C:89% T:NA	pCi/L	09/28/16 09:31	13982-63-3	
Radium-228	EPA 9320	3.96 ± 0.993 (0.939) C:66% T:81%	pCi/L	09/23/16 12:36	15262-20-1	
Total Radium	Total Radium Calculation	4.31 ± 1.16 (1.15)	pCi/L	10/04/16 15:09	7440-14-4	

Sample: DUP-1 Lab ID: 30195127003 Collected: 09/01/16 00:01 Received: 09/06/16 08:50 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.23 ± 0.333 (0.234) C:90% T:NA	pCi/L	09/28/16 09:32	13982-63-3	
Radium-228	EPA 9320	5.10 ± 1.19 (0.942) C:68% T:79%	pCi/L	09/23/16 12:36	15262-20-1	
Total Radium	Total Radium Calculation	6.33 ± 1.52 (1.18)	pCi/L	10/04/16 15:09	7440-14-4	

Sample: KMW-2 Lab ID: 30195127004 Collected: 09/01/16 13:10 Received: 09/06/16 08:50 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.479 ± 0.203 (0.220) C:81% T:NA	pCi/L	09/28/16 09:32	13982-63-3	
Radium-228	EPA 9320	0.915 ± 0.553 (1.04) C:73% T:74%	pCi/L	09/23/16 12:36	15262-20-1	
Total Radium	Total Radium Calculation	1.39 ± 0.756 (1.26)	pCi/L	10/04/16 15:09	7440-14-4	

Sample: KMW-7 Lab ID: 30195127005 Collected: 09/01/16 14:41 Received: 09/06/16 08:50 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.47 ± 0.367 (0.216) C:82% T:NA	pCi/L	09/28/16 09:32	13982-63-3	
Radium-228	EPA 9320	5.79 ± 1.29 (0.860) C:67% T:84%	pCi/L	09/23/16 12:37	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP Phase 2 CCR
 Pace Project No.: 30195127

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: KMW-7 Lab ID: 30195127005 Collected: 09/01/16 14:41 Received: 09/06/16 08:50 Matrix: Water PWS: Site ID: Sample Type:						
Total Radium	Total Radium Calculation	7.26 ± 1.66 (1.08)	pCi/L	10/04/16 15:09	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: KMW-1 Lab ID: 30195127006 Collected: 09/01/16 15:55 Received: 09/06/16 08:50 Matrix: Water PWS: Site ID: Sample Type:						
Radium-226	EPA 9315	1.72 ± 0.393 (0.217) C:89% T:NA	pCi/L	09/28/16 09:32	13982-63-3	
Radium-228	EPA 9320	5.68 ± 1.30 (0.915) C:70% T:71%	pCi/L	09/23/16 12:37	15262-20-1	
Total Radium	Total Radium Calculation	7.40 ± 1.69 (1.13)	pCi/L	10/04/16 15:09	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FBL090116 Lab ID: 30195127007 Collected: 09/01/16 16:35 Received: 09/06/16 08:50 Matrix: Water PWS: Site ID: Sample Type:						
Radium-226	EPA 9315	0.0477 ± 0.108 (0.254) C:94% T:NA	pCi/L	09/28/16 09:32	13982-63-3	
Radium-228	EPA 9320	0.514 ± 0.389 (0.760) C:77% T:77%	pCi/L	09/23/16 12:37	15262-20-1	
Total Radium	Total Radium Calculation	0.562 ± 0.497 (1.01)	pCi/L	10/04/16 15:09	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQBL090116 Lab ID: 30195127008 Collected: 09/01/16 16:45 Received: 09/06/16 08:50 Matrix: Water PWS: Site ID: Sample Type:						
Radium-226	EPA 9315	0.0134 ± 0.0866 (0.227) C:85% T:NA	pCi/L	09/28/16 09:32	13982-63-3	
Radium-228	EPA 9320	0.770 ± 0.468 (0.866) C:72% T:76%	pCi/L	09/23/16 12:39	15262-20-1	
Total Radium	Total Radium Calculation	0.783 ± 0.555 (1.09)	pCi/L	10/04/16 15:09	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft AP Phase 2 CCR
 Pace Project No.: 30195127

QC Batch: 232984 Analysis Method: EPA 9320
 QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
 Associated Lab Samples: 30195127001, 30195127002, 30195127003, 30195127004, 30195127005, 30195127006, 30195127007, 30195127008

METHOD BLANK: 1141814 Matrix: Water
 Associated Lab Samples: 30195127001, 30195127002, 30195127003, 30195127004, 30195127005, 30195127006, 30195127007, 30195127008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.756 ± 0.402 (0.705) C:77% T:82%	pCi/L	09/23/16 12:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft AP Phase 2 CCR
 Pace Project No.: 30195127

QC Batch: 232978 Analysis Method: EPA 9315
 QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
 Associated Lab Samples: 30195127001, 30195127002, 30195127003, 30195127004, 30195127005, 30195127006, 30195127007, 30195127008

METHOD BLANK: 1141797 Matrix: Water
 Associated Lab Samples: 30195127001, 30195127002, 30195127003, 30195127004, 30195127005, 30195127006, 30195127007, 30195127008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0236 ± 0.0605 (0.149) C:91% T:NA	pCi/L	09/28/16 09:31	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft AP Phase 2 CCR
Pace Project No.: 30195127

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 30195127001

[1] The sampler's signature and the relinquished by not listed on the COC.

REPORT OF LABORATORY ANALYSIS

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WO#: 30195127



30105127

Pace Analytical Services, Inc
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30
(770) 734-4200 : FAX (770) 734-4201



CHAIN OF CUSTODY RECORD

CLIENT NAME: **GEORGIA POWER**
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
291 RALPH MCILL BLVD SE BLDG 5
ATLANTA GA 30308
404-566-2239

REPORT TO: **JOJO ABRAMAN**
 CC: **MARIA PADILLA**
HEATH MC GORRLE
LABURCH@SOUTHWEST.COM

REQUESTED COMPLETION DATE:
 PROJECT NAME/STATE: **PLANT KRAFT AP**

PROJECT #: **PHASE 2 CCE**

Collection DATE	Collection TIME	MATRIX CODE*	SAMPLE IDENTIFICATION			
			C	O	R	A
09/01/16	1430	GW	X			KMN-5
09/01/16	1630	GW	X			KMN-6
09/01/16	---	GW	X			DUP-1
09/01/16	1310	GW	X			KMN-2
09/01/16	1441	GW	X			KMN-7
09/01/16	1555	GW	X			KMN-1
09/01/16	1635	GW	X			FBL09016
09/01/16	1645	GW	X			EQL09016

SAMPLED BY AND TITLE: **FORREST HOWARD & MICHAEL PATE** DATE/TIME: **09/01/16**

RECEIVED BY: **Forrest Howard & Michael Pate** DATE/TIME: **9-1-16 10350**

RECEIVED BY LAB: **Forrest Howard & Michael Pate** DATE/TIME: _____

pH checked: (Yes) (No) NA Yes No NA

Temperature: _____ Min _____ Max _____

Intact Broken Not Present

UPS FED-EX USPS COURIER CLIENT OTHER FS

of Coolers _____ Cooler ID: _____

CONTAINER TYPE	PRESERVATION	# of	ANALYSIS REQUESTED			DATE/TIME
			P	D	P	
CONTAINER TYPE: P - PLASTIC, A - AMBER GLASS, G - CLEAR GLASS, V - VOA VIAL, S - STERILE, O - OTHER <td>PRESERVATION: 1 - HCl, ≤6°C, 2 - H₂SO₄, ≤6°C, 3 - HNO₃, 4 - NaOH, ≤6°C, 5 - NaOH/ZnAc, ≤6°C, 6 - Na₂S₂O₃, ≤6°C, 7 - ≤6°C not frozen</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td>	PRESERVATION: 1 - HCl, ≤6°C, 2 - H ₂ SO ₄ , ≤6°C, 3 - HNO ₃ , 4 - NaOH, ≤6°C, 5 - NaOH/ZnAc, ≤6°C, 6 - Na ₂ S ₂ O ₃ , ≤6°C, 7 - ≤6°C not frozen	3	3	3	3	
MATRIX CODES: DW - DRINKING WATER, WW - WASTEWATER, GW - GROUNDWATER, SW - SURFACE WATER, ST - STORM WATER, W - WATER, S - SOIL, SL - SLUDGE, SD - SOLID, A - AIR, L - LIQUID, P - PRODUCT	REMARKS/ADDITIONAL INFORMATION	4	X	1	2	
		3	X	1	1	
		3	X	1	1	
		3	X	1	1	
		3	X	1	1	
		3	X	1	1	
		3	X	1	1	
		3	X	1	1	

RELINQUISHED BY: _____ DATE/TIME: _____

RELINQUISHED BY: _____ DATE/TIME: _____

SAMPLE SHIPPED VIA: _____

LAB # _____

Entered into LIMS: _____

Tracking #: _____

FOR LAB USE ONLY

Sample Condition Upon Receipt Pittsburgh

30195127



Client Name: Face, GA

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5098 8849

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 097R 9-6-16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X	X		3.
Sampler Name & Signature on COC:		X		4. <u>No Signature</u>
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			<u>PHL2</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed: <u>097A</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:		X		15.
Trip Blank Custody Seals Present			X	
Rad Aqueous Samples Screened > 0.5 mrem/hr		X		Initial when completed: <u>097R</u> Date: <u>9-6-16</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: WRR
Date: 9/23/2016
Worklist: 31360
Matrix: DW



Method Blank Assessment	
MB Sample ID	1141797
MB concentration:	0.024
MB Counting Uncertainty:	0.060
MB MDC:	0.149
MB Numerical Performance Indicator:	0.77
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	9/28/2016
Spike I.D.:	16-026
Spike Concentration (pCi/mL):	44.877
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.529
Target Conc. (pCi/L, g, F):	8.452
Uncertainty (Calculated):	0.398
Result (pCi/L, g, F):	7.327
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.605
Numerical Performance Indicator:	-3.05
Percent Recovery:	86.68%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample I.D.:	30195127001
Duplicate Sample I.D.:	30195127001DUP
Sample Result (pCi/L, g, F):	1.317
Sample Duplicate Result (pCi/L, g, F):	0.301
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.390
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.315
Are sample and/or duplicate results below MDC?	See Below #
Duplicate Numerical Performance Indicator:	-0.329
Duplicate RPD:	5.40%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

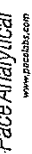
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 9/15/2016
Worklist: 31365
Matrix: DW

Method Blank Assessment	
MB Sample ID	1141814
MB Concentration:	0.756
MB Counting Uncertainty:	0.379
MB MDC:	0.705
MB Numerical Performance Indicator:	3.91
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
Count Date:	9/23/2016
Spike I.D.:	16-025
Spike Concentration (pCi/L):	25.599
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.809
Target Conc. (pCi/L, g, F):	6.328
Uncertainty (Calculated):	0.456
Result (pCi/L, g, F):	7.473
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.849
Numerical Performance Indicator:	2.33
Percent Recovery:	118.07%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample I.D.:	30195127001
Duplicate Sample I.D.:	30195127001DUP
Sample Result (pCi/L, g, F):	4.765
Sample Result Counting Uncertainty (pCi/L, g, F):	0.691
Sample Duplicate Result (pCi/L, g, F):	5.113
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.692
Are sample and/or duplicate results below MDC?:	See Below ##
Duplicate Numerical Performance Indicator:	-0.699
Duplicate RPD:	7.06%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

[Handwritten signature]



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

**Georgia Power
2480 Maner Road
Atlanta, GA 30339**

Attention: Mr. Joju Abraham

Report Number: AAB0005

February 09, 2017

Project: CCR Event

Project #:Plant Kraft

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:

A handwritten signature in black ink that reads "Betsy McDaniel" written over a horizontal line.

Project Manager

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All test results relate only to the samples analyzed.



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

February 09, 2017

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KMW-06	AAB0005-01	Ground Water	01/31/17 09:32	02/01/17 09:20
KMW-05	AAB0005-02	Ground Water	01/31/17 10:30	02/01/17 09:20
EQBL-013117	AAB0005-03	Water	01/31/17 18:10	02/01/17 09:20
FBL-013117	AAB0005-04	Water	01/31/17 18:00	02/01/17 09:20



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

February 09, 2017

Attention: Mr. Joju Abraham

Report No.: AAB0005

Project: CCR Event

Client ID: KMW-06

Lab Number ID: AAB0005-01

Date/Time Sampled: 1/31/2017 9:32:00AM

Date/Time Received: 2/1/2017 9:20:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	3820	25	10	mg/L	SM 2540 C		1	02/03/17 11:35	02/03/17 11:35	7020078	JPT
Inorganic Anions											
Chloride	2000	25	1.3	mg/L	EPA 300.0	B-01	100	02/04/17 11:15	02/07/17 08:41	7020101	RLC
Fluoride	1.3	0.30	0.004	mg/L	EPA 300.0		1	02/04/17 11:15	02/04/17 23:37	7020101	RLC
Sulfate	2600	100	9.2	mg/L	EPA 300.0	B-01	100	02/04/17 11:15	02/07/17 08:41	7020101	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Arsenic	0.0041	0.0050	0.0016	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Barium	0.0314	0.0100	0.0004	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Beryllium	0.0028	0.0030	0.00008	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Boron	0.922	0.0400	0.0064	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Calcium	161	25.0	1.55	mg/L	EPA 6020B		50	02/02/17 15:00	02/06/17 21:18	7020031	KLH
Chromium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Cobalt	0.0075	0.0100	0.0005	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Lead	ND	0.0050	0.0001	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Selenium	0.0110	0.0100	0.0010	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Thallium	0.0003	0.0010	0.0002	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Lithium	0.0479	0.0500	0.0021	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:12	7020031	KLH
Mercury	0.000065	0.00050	0.000041	mg/L	EPA 7470A	B-01, J	1	02/06/17 12:45	02/06/17 17:17	7020113	MTC



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

February 09, 2017

Attention: Mr. Joju Abraham

Report No.: AAB0005

Project: CCR Event

Client ID: KMW-05

Lab Number ID: AAB0005-02

Date/Time Sampled: 1/31/2017 10:30:00AM

Date/Time Received: 2/1/2017 9:20:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	3830	25	10	mg/L	SM 2540 C		1	02/03/17 11:35	02/03/17 11:35	7020078	JPT
Inorganic Anions											
Chloride	1900	25	1.3	mg/L	EPA 300.0	B-01	100	02/04/17 11:15	02/07/17 09:02	7020101	RLC
Fluoride	0.11	0.30	0.004	mg/L	EPA 300.0	J	1	02/04/17 11:15	02/05/17 00:39	7020101	RLC
Sulfate	530	100	9.2	mg/L	EPA 300.0	B-01	100	02/04/17 11:15	02/07/17 09:02	7020101	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Arsenic	0.0062	0.0050	0.0016	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Barium	0.0445	0.0100	0.0004	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Beryllium	0.0011	0.0030	0.00008	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Boron	0.784	0.400	0.0642	mg/L	EPA 6020B		10	02/02/17 15:00	02/07/17 13:47	7020031	KLH
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Calcium	159	25.0	1.55	mg/L	EPA 6020B		50	02/02/17 15:00	02/07/17 13:41	7020031	KLH
Chromium	0.0015	0.0100	0.0009	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Cobalt	0.0111	0.0100	0.0005	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Lead	0.0004	0.0050	0.0001	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Selenium	0.0046	0.0100	0.0010	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Thallium	0.0004	0.0010	0.0002	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Lithium	0.0124	0.0500	0.0021	mg/L	EPA 6020B	J	1	02/02/17 15:00	02/06/17 21:35	7020031	KLH
Mercury	0.00012	0.00050	0.000041	mg/L	EPA 7470A	B-01, J	1	02/06/17 12:45	02/06/17 17:19	7020113	MTC



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 Atlanta GA, 30339

February 09, 2017

Attention: Mr. Joju Abraham

Report No.: AAB0005

Project: CCR Event

Client ID: EQBL-013117

Lab Number ID: AAB0005-03

Date/Time Sampled: 1/31/2017 6:10:00PM

Date/Time Received: 2/1/2017 9:20:00AM

Matrix: Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	02/03/17 18:20	02/03/17 18:20	7020170	JPT
Inorganic Anions											
Chloride	0.06	0.25	0.01	mg/L	EPA 300.0	B-01, J	1	02/04/17 11:15	02/05/17 02:23	7020101	RLC
Fluoride	ND	0.30	0.004	mg/L	EPA 300.0		1	02/04/17 11:15	02/05/17 02:23	7020101	RLC
Sulfate	ND	1.0	0.09	mg/L	EPA 300.0		1	02/04/17 11:15	02/05/17 02:23	7020101	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Arsenic	ND	0.0050	0.0016	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Barium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Beryllium	ND	0.0030	0.00008	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Boron	ND	0.0400	0.0064	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Calcium	ND	0.500	0.0311	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Chromium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Cobalt	ND	0.0100	0.0005	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Lead	ND	0.0050	0.0001	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Selenium	ND	0.0100	0.0010	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Lithium	ND	0.0500	0.0021	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:47	7020031	KLH
Mercury	0.00006	0.00050	0.000041	mg/L	EPA 7470A	B-01, J	1	02/06/17 12:45	02/06/17 17:21	7020113	MTC



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February 09, 2017

Attention: Mr. Joju Abraham

Report No.: AAB0005

Project: CCR Event

Client ID: FBL-013117

Lab Number ID: AAB0005-04

Date/Time Sampled: 1/31/2017 6:00:00PM

Date/Time Received: 2/1/2017 9:20:00AM

Matrix: Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	02/03/17 11:35	02/03/17 11:35	7020078	JPT
Inorganic Anions											
Chloride	0.08	0.25	0.01	mg/L	EPA 300.0	B-01, J	1	02/04/17 11:15	02/05/17 02:43	7020101	RLC
Fluoride	ND	0.30	0.004	mg/L	EPA 300.0		1	02/04/17 11:15	02/05/17 02:43	7020101	RLC
Sulfate	ND	1.0	0.09	mg/L	EPA 300.0		1	02/04/17 11:15	02/05/17 02:43	7020101	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Arsenic	ND	0.0050	0.0016	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Barium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Beryllium	ND	0.0030	0.00008	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Boron	ND	0.0400	0.0064	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Calcium	ND	0.500	0.0311	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Chromium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Cobalt	ND	0.0100	0.0005	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Lead	ND	0.0050	0.0001	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Selenium	ND	0.0100	0.0010	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Lithium	ND	0.0500	0.0021	mg/L	EPA 6020B		1	02/02/17 15:00	02/06/17 21:52	7020031	KLH
Mercury	0.00007	0.00050	0.000041	mg/L	EPA 7470A	B-01, J	1	02/06/17 12:45	02/06/17 17:24	7020113	MTC



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February 09, 2017

Report No.: AAB0005

General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020078 - SM 2540 C											
Blank (7020078-BLK1)						Prepared & Analyzed: 02/03/17					
Total Dissolved Solids	ND	25	10	mg/L							
LCS (7020078-BS1)						Prepared & Analyzed: 02/03/17					
Total Dissolved Solids	413	25	10	mg/L	400.00		103	84-108			
Duplicate (7020078-DUP1)						Source: AAB0005-02 Prepared & Analyzed: 02/03/17					
Total Dissolved Solids	3840	25	10	mg/L		3830			0.3	10	
Duplicate (7020078-DUP2)						Source: AAB0021-07 Prepared & Analyzed: 02/03/17					
Total Dissolved Solids	14	25	10	mg/L		18			25	10	QR-01, J
Batch 7020170 - SM 2540 C											
Blank (7020170-BLK1)						Prepared & Analyzed: 02/07/17					
Total Dissolved Solids	ND	25	10	mg/L							
LCS (7020170-BS1)						Prepared & Analyzed: 02/07/17					
Total Dissolved Solids	384	25	10	mg/L	400.00		96	84-108			
Duplicate (7020170-DUP1)						Source: AAA0992-05RE2 Prepared & Analyzed: 02/07/17					
Total Dissolved Solids	ND	25	10	mg/L		ND				10	
Duplicate (7020170-DUP2)						Source: AAB0005-03RE1 Prepared & Analyzed: 02/07/17					
Total Dissolved Solids	ND	25	10	mg/L		ND				10	
Duplicate (7020170-DUP3)						Source: AAB0021-08RE1 Prepared & Analyzed: 02/07/17					
Total Dissolved Solids	ND	25	10	mg/L		ND				10	



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February 09, 2017

Report No.: AAB0005

Inorganic Anions - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020101 - EPA 300.0											
Blank (7020101-BLK1)						Prepared & Analyzed: 02/04/17					
Chloride	0.07	0.25	0.01	mg/L							J
Fluoride	ND	0.30	0.004	mg/L							
Sulfate	0.26	1.0	0.09	mg/L							J
LCS (7020101-BS1)						Prepared & Analyzed: 02/04/17					
Chloride	10.9	0.25	0.01	mg/L	10.010		109	90-110			
Fluoride	10.8	0.30	0.004	mg/L	10.020		108	90-110			
Sulfate	10.8	1.0	0.09	mg/L	10.020		107	90-110			
Matrix Spike (7020101-MS1)						Source: AAB0005-01 Prepared & Analyzed: 02/04/17					
Chloride	235	0.25	0.01	mg/L	10.010	271	NR	90-110			QM-02
Fluoride	13.2	0.30	0.004	mg/L	10.020	1.33	119	90-110			QM-05
Sulfate	300	1.0	0.09	mg/L	10.020	312	NR	90-110			QM-02
Matrix Spike (7020101-MS2)						Source: AAB0020-02 Prepared: 02/04/17 Analyzed: 02/05/17					
Chloride	13.0	0.25	0.01	mg/L	10.010	2.45	106	90-110			
Fluoride	11.2	0.30	0.004	mg/L	10.020	0.04	111	90-110			QM-05
Sulfate	23.5	1.0	0.09	mg/L	10.020	12.8	107	90-110			
Matrix Spike Dup (7020101-MSD1)						Source: AAB0005-01 Prepared: 02/04/17 Analyzed: 02/05/17					
Chloride	237	0.25	0.01	mg/L	10.010	271	NR	90-110	0.9	15	QM-02
Fluoride	13.0	0.30	0.004	mg/L	10.020	1.33	117	90-110	1	15	QM-05
Sulfate	300	1.0	0.09	mg/L	10.020	312	NR	90-110	0.05	15	QM-02



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Report No.: AAB0005

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020031 - EPA 3005A											
Blank (7020031-BLK1)											
						Prepared: 02/02/17 Analyzed: 02/06/17					
Antimony	ND	0.0030	0.0008	mg/L							
Arsenic	ND	0.0050	0.0016	mg/L							
Barium	ND	0.0100	0.0004	mg/L							
Beryllium	ND	0.0030	0.00008	mg/L							
Boron	ND	0.0400	0.0064	mg/L							
Cadmium	ND	0.0010	0.00007	mg/L							
Calcium	ND	0.500	0.0311	mg/L							
Chromium	ND	0.0100	0.0009	mg/L							
Cobalt	ND	0.0100	0.0005	mg/L							
Copper	ND	0.0250	0.0005	mg/L							
Lead	ND	0.0050	0.0001	mg/L							
Molybdenum	ND	0.0100	0.0017	mg/L							
Nickel	ND	0.0100	0.0006	mg/L							
Selenium	ND	0.0100	0.0010	mg/L							
Silver	ND	0.0100	0.0005	mg/L							
Thallium	ND	0.0010	0.0002	mg/L							
Vanadium	ND	0.0100	0.0071	mg/L							
Zinc	ND	0.0100	0.0021	mg/L							
Lithium	ND	0.0500	0.0021	mg/L							
LCS (7020031-BS1)											
						Prepared: 02/02/17 Analyzed: 02/06/17					
Antimony	0.109	0.0030	0.0008	mg/L	0.10000		109	80-120			
Arsenic	0.0939	0.0050	0.0016	mg/L	0.10000		94	80-120			
Barium	0.100	0.0100	0.0004	mg/L	0.10000		100	80-120			
Beryllium	0.106	0.0030	0.00008	mg/L	0.10000		106	80-120			
Boron	1.04	0.0400	0.0064	mg/L	1.0000		104	80-120			
Cadmium	0.103	0.0010	0.00007	mg/L	0.10000		103	80-120			
Calcium	1.08	0.500	0.0311	mg/L	1.0000		108	80-120			
Chromium	0.0944	0.0100	0.0009	mg/L	0.10000		94	80-120			
Cobalt	0.0926	0.0100	0.0005	mg/L	0.10000		93	80-120			
Copper	0.0923	0.0250	0.0005	mg/L	0.10000		92	80-120			
Lead	0.0998	0.0050	0.0001	mg/L	0.10000		100	80-120			
Molybdenum	0.106	0.0100	0.0017	mg/L	0.10000		106	80-120			
Nickel	0.0923	0.0100	0.0006	mg/L	0.10000		92	80-120			
Selenium	0.0967	0.0100	0.0010	mg/L	0.10000		97	80-120			
Silver	0.105	0.0100	0.0005	mg/L	0.10000		105	80-120			
Thallium	0.102	0.0010	0.0002	mg/L	0.10000		102	80-120			
Vanadium	0.0930	0.0100	0.0071	mg/L	0.10000		93	80-120			
Zinc	0.0947	0.0100	0.0021	mg/L	0.10000		95	80-120			
Lithium	0.109	0.0500	0.0021	mg/L	0.10000		109	80-120			



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February 09, 2017

Report No.: AAB0005

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020031 - EPA 3005A											
Matrix Spike (7020031-MS1)			Source: AAB0005-02			Prepared: 02/02/17 Analyzed: 02/06/17					
Antimony	0.107	0.0030	0.0008	mg/L	0.10000	ND	107	75-125			
Arsenic	0.107	0.0050	0.0016	mg/L	0.10000	0.0062	101	75-125			
Barium	0.154	0.0100	0.0004	mg/L	0.10000	0.0445	110	75-125			
Beryllium	0.0874	0.0030	0.00008	mg/L	0.10000	0.0011	86	75-125			
Boron	1.47	0.0400	0.0064	mg/L	1.0000	0.784	68	75-125			QM-02
Cadmium	0.0936	0.0010	0.00007	mg/L	0.10000	ND	94	75-125			
Calcium	157	25.0	1.55	mg/L	1.0000	159	NR	75-125			QM-02
Chromium	0.103	0.0100	0.0009	mg/L	0.10000	0.0015	102	75-125			
Cobalt	0.105	0.0100	0.0005	mg/L	0.10000	0.0111	94	75-125			
Copper	0.0818	0.0250	0.0005	mg/L	0.10000	ND	82	75-125			
Lead	0.0981	0.0050	0.0001	mg/L	0.10000	0.0004	98	75-125			
Molybdenum	0.109	0.0100	0.0017	mg/L	0.10000	ND	109	75-125			
Nickel	0.141	0.0100	0.0006	mg/L	0.10000	0.0510	90	75-125			
Selenium	0.103	0.0100	0.0010	mg/L	0.10000	0.0046	98	75-125			
Silver	0.0842	0.0100	0.0005	mg/L	0.10000	ND	84	75-125			
Thallium	0.101	0.0010	0.0002	mg/L	0.10000	0.0004	100	75-125			
Vanadium	0.108	0.0100	0.0071	mg/L	0.10000	ND	108	75-125			
Zinc	0.115	0.0100	0.0021	mg/L	0.10000	0.0291	86	75-125			
Lithium	0.102	0.0500	0.0021	mg/L	0.10000	0.0124	90	75-125			
Matrix Spike Dup (7020031-MSD1)			Source: AAB0005-02			Prepared: 02/02/17 Analyzed: 02/06/17					
Antimony	0.111	0.0030	0.0008	mg/L	0.10000	ND	111	75-125	3	20	
Arsenic	0.108	0.0050	0.0016	mg/L	0.10000	0.0062	102	75-125	0.7	20	
Barium	0.156	0.0100	0.0004	mg/L	0.10000	0.0445	112	75-125	1	20	
Beryllium	0.0884	0.0030	0.00008	mg/L	0.10000	0.0011	87	75-125	1	20	
Boron	1.49	0.0400	0.0064	mg/L	1.0000	0.784	71	75-125	1	20	QM-02
Cadmium	0.0967	0.0010	0.00007	mg/L	0.10000	ND	97	75-125	3	20	
Calcium	160	25.0	1.55	mg/L	1.0000	159	47	75-125	2	20	QM-02
Chromium	0.101	0.0100	0.0009	mg/L	0.10000	0.0015	100	75-125	2	20	
Cobalt	0.108	0.0100	0.0005	mg/L	0.10000	0.0111	97	75-125	2	20	
Copper	0.0839	0.0250	0.0005	mg/L	0.10000	ND	84	75-125	3	20	
Lead	0.103	0.0050	0.0001	mg/L	0.10000	0.0004	103	75-125	5	20	
Molybdenum	0.113	0.0100	0.0017	mg/L	0.10000	ND	113	75-125	4	20	
Nickel	0.140	0.0100	0.0006	mg/L	0.10000	0.0510	89	75-125	0.6	20	
Selenium	0.102	0.0100	0.0010	mg/L	0.10000	0.0046	97	75-125	1	20	
Silver	0.0860	0.0100	0.0005	mg/L	0.10000	ND	86	75-125	2	20	
Thallium	0.106	0.0010	0.0002	mg/L	0.10000	0.0004	106	75-125	6	20	
Vanadium	0.109	0.0100	0.0071	mg/L	0.10000	ND	109	75-125	0.7	20	
Zinc	0.116	0.0100	0.0021	mg/L	0.10000	0.0291	87	75-125	0.9	20	
Lithium	0.108	0.0500	0.0021	mg/L	0.10000	0.0124	96	75-125	6	20	



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

February 09, 2017

Report No.: AAB0005

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020031 - EPA 3005A											
Post Spike (7020031-PS1)			Source: AAB0005-02			Prepared: 02/02/17 Analyzed: 02/06/17					
Antimony	107			ug/L	100.00	0.251	107	80-120			
Arsenic	106			ug/L	100.00	6.23	100	80-120			
Barium	144			ug/L	100.00	44.5	99	80-120			
Beryllium	92.1			ug/L	100.00	1.07	91	80-120			
Boron	1570			ug/L	1000.0	784	78	80-120			QM-02
Cadmium	96.7			ug/L	100.00	0.0292	97	80-120			
Calcium	168000			ug/L	1000.0	159000	844	80-120			QM-02
Chromium	102			ug/L	100.00	1.46	101	80-120			
Cobalt	105			ug/L	100.00	11.1	94	80-120			
Copper	82.9			ug/L	100.00	0.0687	83	80-120			
Lead	101			ug/L	100.00	0.371	101	80-120			
Molybdenum	111			ug/L	100.00	0.775	111	80-120			
Nickel	142			ug/L	100.00	51.0	91	80-120			
Selenium	100			ug/L	100.00	4.64	96	80-120			
Silver	83.1			ug/L	100.00	0.0177	83	80-120			
Thallium	105			ug/L	100.00	0.381	105	80-120			
Vanadium	110			ug/L	100.00	0.647	110	80-120			
Zinc	118			ug/L	100.00	29.1	89	80-120			
Lithium	108			ug/L	100.00	12.4	95	80-120			

Batch 7020113 - EPA 7470A

Blank (7020113-BLK1)					Prepared & Analyzed: 02/06/17						
Mercury	0.00007	0.00050	0.000041	mg/L							J
LCS (7020113-BS1)					Prepared & Analyzed: 02/06/17						
Mercury	0.00238	0.00050	0.000041	mg/L	2.5000E-3		95	80-120			



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

February 09, 2017

Report No.: AAB0005

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020113 - EPA 7470A											
Matrix Spike (7020113-MS1)			Source: AAA0956-04			Prepared & Analyzed: 02/06/17					
Mercury	0.00234	0.00050	0.000041	mg/L	2.5000E-3	0.00006	91	75-125			
Matrix Spike Dup (7020113-MSD1)			Source: AAA0956-04			Prepared & Analyzed: 02/06/17					
Mercury	0.00235	0.00050	0.000041	mg/L	2.5000E-3	0.00006	92	75-125	0.7	20	
Post Spike (7020113-PS1)			Source: AAA0956-04			Prepared & Analyzed: 02/06/17					
Mercury	1.72			ug/L	1.6667	0.0422	101	80-120			



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Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

February 09, 2017

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
- BRL** - Not Detected at levels equal to or greater than the RL
- RL** - Reporting Limit **MDL** - Method Detection Limit
- SOP** - Method run per Pace Standard Operating Procedure
- CFU** - Colony Forming Units
- DF** - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- QR-01** RPD was outside acceptance limits due to sample concentrations near or below the reporting limit.
- QM-05** The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.
- QM-02** The spike recovery is outside acceptance limits due to insignificant spike amount as compared to sample concentration.
- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).
- B-01** Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

PAGE: 1 OF 1



CLIENT NAME: SOUTHGREN COMPANY SERVICES
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
 241 RALPH MCGLIN BLVD SE 810185
 ATLANTA, GA 30308
 407.506.7227
 REPORT TO: LAUREN BETTY
 REQUESTED COMPLETION DATE:
 PROJECT NAME/STATE: PLANT KRAFT
 PROJECT #: GFC CER KRAFT

CONTAINER TYPE	ANALYSIS REQUESTED	CONTAINER TYPE	ANALYSIS REQUESTED
3	METALS (Pb, Cu, Ni, Cr, V, Mn, Fe, Zn, Cd, Hg, Se, As, Sb, Bi, Mo, Sn, Co, Ni, Ti, Al, Si, B, P, S, Cl, F, Br, I, K, Rb, Cs, Sr, Ba, Ca, Mg, Na, Li, Be, B, Al, Ga, In, Tl, Sn, Pb, Bi, Po, At, Rn, Fr, Ra, Ac, Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr)	3	METALS (Pb, Cu, Ni, Cr, V, Mn, Fe, Zn, Cd, Hg, Se, As, Sb, Bi, Mo, Sn, Co, Ni, Ti, Al, Si, B, P, S, Cl, F, Br, I, K, Rb, Cs, Sr, Ba, Ca, Mg, Na, Li, Be, B, Al, Ga, In, Tl, Sn, Pb, Bi, Po, At, Rn, Fr, Ra, Ac, Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr)
4	PERMITS (EPA 300.0 & 304 244C)	4	PERMITS (EPA 300.0 & 304 244C)
4	PERMITS (SM-846 9315/9320)	4	PERMITS (SM-846 9315/9320)

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, 56°C
A - AMBER GLASS	2 - H ₂ SO ₄ , 56°C
G - CLEAR GLASS	3 - HNO ₃
V - VOA VIAL	4 - NaOH, 56°C
S - STERILE	5 - NaOH/ZnAc, 56°C
O - OTHER	6 - Na ₂ S ₂ O ₈ , 56°C
	7 - 56°C not frozen

MATRIX CODES:	REMARKS/ADDITIONAL INFORMATION
DW - DRINKING WATER	S - SOIL
MW - WASTEWATER	SL - SLUDGE
GW - GROUNDWATER	SD - SOLID
SW - SURFACE WATER	A - AIR
ST - STORM WATER	L - LIQUID
W - WATER	P - PRODUCT

SAMPLED BY AND TITLE: MICHAEL FOREST HEWASD & PATINKIN
 RECEIVED BY: [Signature]
 DATE/TIME: 01/31/17 1830
 RELINQUISHED BY: [Signature]
 DATE/TIME: 01/31/17 1830
 LAB #: AA0005
 Tracking #: 785469427606
 Entered into LIMS: [Signature]
 FOR LAB USE ONLY



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 2/1/2017 1:39:27PM

Attn: Mr. Joju Abraham

Client: Georgia Power

Project: CCR Event

Date Received: 02/01/17 09:20

Work Order: AAB0005

Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 4

#Containers: 16

Minimum Temp(C): 1.0

Maximum Temp(C): 1.0

Custody Seal(s) Used: Yes

CHECKLIST ITEMS

- COC included with Samples YES
- Sample Container(s) Intact YES
- Chain of Custody Complete YES
- Sample Container(s) Match COC YES
- Custody seal Intact YES
- Temperature in Compliance YES
- Sufficient Sample Volume for Analysis YES
- Zero Headspace Maintained for VOA Analyses YES
- Samples labeled preserved (If Applicable) YES
- Samples received within Allowable Hold Times YES
- Samples Received on Ice YES
- Preservation Confirmed YES

Comments:

February 27, 2017

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Kraft
Pace Project No.: 30209603

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Plant Kraft
Pace Project No.: 30209603

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft
Pace Project No.: 30209603

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30209603001	KMW-06	Water	01/31/17 09:32	02/02/17 10:05
30209603002	KMW-05	Water	01/31/17 10:30	02/02/17 10:05
30209603003	EQBL013117	Water	01/31/17 18:10	02/02/17 10:05
30209603004	FBL013117	Water	01/31/17 18:00	02/02/17 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft
Pace Project No.: 30209603

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30209603001	KMW-06	EPA 9315	LAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	JAL	1
30209603002	KMW-05	EPA 9315	LAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	JAL	1
30209603003	EQBL013117	EPA 9315	LAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30209603004	FBL013117	EPA 9315	LAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft
Pace Project No.: 30209603

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	2.24 ± 0.475 (0.160) C:97% T:NA	pCi/L	02/15/17 08:20	13982-63-3	
Radium-228		EPA 9320	5.41 ± 1.16 (0.655) C:77% T:86%	pCi/L	02/23/17 11:40	15262-20-1	
Total Radium		Total Radium Calculation	6.90 ± 1.48 (0.762)	pCi/L	02/23/17 16:09	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	1.39 ± 0.332 (0.157) C:104% T:NA	pCi/L	02/15/17 08:20	13982-63-3	
Radium-228		EPA 9320	4.41 ± 1.01 (0.736) C:75% T:82%	pCi/L	02/23/17 11:40	15262-20-1	
Total Radium		Total Radium Calculation	5.80 ± 1.34 (0.893)	pCi/L	02/23/17 16:09	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.0262 ± 0.136 (0.358) C:86% T:NA	pCi/L	02/15/17 09:33	13982-63-3	
Radium-228		EPA 9320	0.792 ± 0.540 (1.02) C:52% T:77%	pCi/L	02/23/17 11:47	15262-20-1	
Total Radium		Total Radium Calculation	0.818 ± 0.676 (1.38)	pCi/L	02/24/17 16:21	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	-0.108 ± 0.158 (0.512) C:80% T:NA	pCi/L	02/15/17 09:03	13982-63-3	
Radium-228		EPA 9320	1.14 ± 0.676 (1.27) C:50% T:82%	pCi/L	02/23/17 11:37	15262-20-1	
Total Radium		Total Radium Calculation	1.14 ± 0.834 (1.78)	pCi/L	02/24/17 16:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 30209603

QC Batch: 248965

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30209603003, 30209603004

METHOD BLANK: 1224567

Matrix: Water

Associated Lab Samples: 30209603003, 30209603004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0945 ± 0.388 (0.887) C:53% T:83%	pCi/L	02/23/17 11:46	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 30209603

QC Batch:	248824	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
Associated Lab Samples:	30209603001, 30209603002		

METHOD BLANK:	1223623	Matrix:	Water
Associated Lab Samples:	30209603001, 30209603002		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00454 ± 0.0688 (0.190) C:100% T:NA	pCi/L	02/14/17 10:56	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 30209603

QC Batch: 248899

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30209603001, 30209603002

METHOD BLANK: 1224049

Matrix: Water

Associated Lab Samples: 30209603001, 30209603002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.991 ± 0.451 (0.731) C:88% T:66%	pCi/L	02/23/17 12:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 30209603

QC Batch: 248825

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 30209603003, 30209603004

METHOD BLANK: 1223624

Matrix: Water

Associated Lab Samples: 30209603003, 30209603004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0911 ± 0.153 (0.342) C:91% T:NA	pCi/L	02/15/17 09:03	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft
Pace Project No.: 30209603

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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WO#: 30209603



Chain of Custody



Workorder: AAB0005

Workorder Name: Plant Kraft

Owner Received Date:

Results Requested By: 2/24/2017

Report To:

Subcontract To:

Pace - Pittsburgh
1638 Roseytown Road
Stes. 2,3,4
Greensburg, PA 15601
Phone (724) 850-5600

Betsy McDaniel
Pace Analytical Atlanta
110 Technology Parkway
Peachtree Corners, GA 30092
Phone (770)-734-4200

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers			LAB USE ONLY				
						3	ON	H					
1	KMW-06	G	1/31/2017 9:32	AAB0005-01	GW	2			001				
2	KMW-05	G	1/31/2017 10:30	AAB0005-02	GW	2			002				
3	EQBL013117	G	1/31/2017 18:10	AAB0005-03	W	2			003				
4	FBL013117	G	1/31/2017 18:00	AAB0005-04	W	2			004				
5													
6													
7													
8													
9													
10													
Transfers Released By						Date/Time		Received By		Date/Time		Comments	
1								Walt Rose/Kraft		2-27-17/1005			
2													
3													

Cooler Temperature on Receipt N/A °C Custody Seal Y or N N Received on Ice Y or N N Sample Intact Y or N Y

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Friday, June 17, 2016 11:01:34 AM

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

Pace Analytical Services, Inc
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201



CHAIN OF CUSTODY RECORD

CLIENT NAME: SOUTHGRN COMPANY SERVICES
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
 241 RALPH MCGLUE BLVD SE 810185
 ATLANTA, GA 30308
 404.506.7239
 REPORT TO: LARRY PETTY
 CC: STEPHEN WILSON (970) 221-1214
 MICHAEL PATINKIN (970) 221-1214
 PO # LABRCH @ SOUTHGRN.COM
 REQUESTED COMPLETION DATE:
 PROJECT NAME/STATE: PLANT KRAFT

Collection DATE	Collection TIME	MATRIX CODE	C O M P	SAMPLE IDENTIFICATION
01/31/17	0932	GW	X	KMN-06
01/31/17	1030	GW	X	KMN-05
04/31/17	1810	W	X	FRSLO13117
01/31/17	1800	W	X	FRSLO13117

PROJECT # GFC CCR KRAFT

DATE/TIME: 01/31/17 1800
 DATE/TIME: 01/31/17 1820
 DATE/TIME: 01/31/17 0920

RECEIVED BY LAB: M. Rabman
 RECEIVED BY: M. Rabman
 Temperature: 10°C
 Yes No NA

CONTAINER TYPE	ANALYSIS REQUESTED	CONTAINER TYPE	PRESERVATION	LAB #	DATE/TIME	DATE/TIME
3	META. APP. III & IV (EPA 620/470)	P- PLASTIC	3	78546942	01/31/17	01/31/17
7	LT, F, 504 & TDS (EPA 300.0 & 84 ZYHAC)	A- AMBER GLASS	7	78546942	01/31/17	01/31/17
3	RAPID 226 & 228 (SM-846 9315/9320)	G- CLEAR GLASS	3	78546942	01/31/17	01/31/17

L A B N U M B E R	CONTAINER TYPE	PRESERVATION	REMARKS/ADDITIONAL INFORMATION
1	P- PLASTIC	1- HCl, 56°C	1 COOLER
2	A- AMBER GLASS	2- H2SO4, 56°C	
3	G- CLEAR GLASS	3- HNO3	
4	V- VOA VIAL	4- NaOH, 56°C	
5	O- OTHER	5- NaOH/ZnAc, 56°C	
6		6- Na2S2O3, 56°C	
7		7- 56°C not frozen	

MATRIX CODES:
 DW- DRINKING WATER S- SOIL
 LW- WASTEWATER SL- SLUDGE
 GW- GROUNDWATER SD- SOLID
 SW- SURFACE WATER A- AIR
 ST- STORM WATER L- LIQUID
 W- WATER P- PRODUCT

FOR LAB USE ONLY
 LAB # 78546942
 Entered into LIMS: MR
 Tracking #: 78546942-7606

RELIQUISHED BY: [Signature]
 DATE/TIME: 01/31/17 1820

RELIQUISHED BY: [Signature]
 DATE/TIME: 01/31/17 0920

SAMPLE SHIPPED VIA: UPS (FED-EX)
 COURIER: # of Coolers
 CLIENT: OTHER: FS
 Cooler ID:

Quantity Seal: Intact Broken Not Present
 Min: 10°C Max: 10°C

Sample Condition Upon Receipt Pittsburgh



Client Name: Pace, GA

Project # 30209603

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5102 0454

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and initials of person examining contents: AGR 2-2-17

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Organic Samples checked for dechlorination:			X	13.
Filtered volume received for Dissolved tests			X	14.
All containers have been checked for preservation.	X			15.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			<u>PHLZ</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed <u>AGR</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	16.
Trip Blank Present:		X		17.
Trip Blank Custody Seals Present			X	
Rad Aqueous Samples Screened > 0.5 mrem/hr		X		Initial when completed <u>AGR</u> Date: <u>2-2-17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

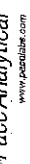
Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLLW
Date: 2/13/2017
Worklist: 33965
Matrix: DW

Method Blank Assessment	
MB Sample ID	1224049
MB concentration:	0.991
M/B Counting Uncertainty:	0.414
MB MDC:	0.731
MB Numerical Performance Indicator:	4.69
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		N
Count Date:	LCS33965	LCS33965
Spike I.D.:	2/23/2017	
Spike Concentration (pCi/mL):	16-027	
Volume Used (mL):	25.228	
Aliquot Volume (L, g, F):	0.20	
Target Conc. (pCi/L, g, F):	0.810	
Uncertainty (Calculated):	6.231	
Result (pCi/L, g, F):	8.243	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.828	
Numerical Performance Indicator:	4.19	
Percent Recovery:	132.29%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	

Duplicate Sample Assessment	
Sample I.D.:	30209600005
Duplicate Sample I.D.:	30209600005DUP
Sample Result (pCi/L, g, F):	1.345
Sample Duplicate Result (pCi/L, g, F):	0.471
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.855
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.393
Are sample and/or duplicate results below MDC?	See Below ##
Duplicate Numerical Performance Indicator:	1.566
Duplicate RPD:	44.56%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

**The method blank result is below the reporting limit for this analysis and is acceptable.

***Batch must be re-prepped due to unacceptable precision.

Sample Matrix Spike Control Assessment	
Sample Collection Date:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike I.D.:
Spike Volume Used in MS (mL):	Spike Volume Used in MS (mL):
MS Aliquot (L, g, F):	MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):	MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):	MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):	Spike uncertainty (calculated):
Sample Result:	Sample Result:
Sample Matrix Spike Result:	Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
MS Numerical Performance Indicator:	MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:	MSD Numerical Performance Indicator:
MS Percent Recovery:	MS Percent Recovery:
MS Status vs Numerical Indicator:	MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:	MSD Status vs Numerical Indicator:
MS Status vs Recovery:	MS Status vs Recovery:
MSD Status vs Recovery:	MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:	MS/MSD Duplicate Status vs RPD:

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 2/10/2017
Worklist: 33939
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID: 1223623
MB concentration: 0.005
MB Counting Uncertainty: 0.089
MB MDC: 0.190
MB Numerical Performance Indicator: 0.13
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

LCSID (Y or N)?	N
LCS33939	LCS033939
Count Date: 2/15/2017	
Spike ID.: 16-026	
Spike Concentration (pCi/mL): 44.669	
Volume Used (mL): 0.10	
Aliquot Volume (L, g, F): 0.502	
Target Conc. (pCi/L, g, F): 8.890	
Uncertainty (Calculated): 0.418	
Result (pCi/L, g, F): 7.727	
LCS/LCSD Counting Uncertainty (pCi/L, g, F): 0.653	
Numerical Performance Indicator: -2.94	
Percent Recovery: 86.93%	
Status vs Numerical Indicator: N/A	
Status vs Recovery: Pass	

Duplicate Sample Assessment

Sample ID.: 30209600005
Duplicate Sample ID.: 30209600005DUP
Sample Result Counting Uncertainty (pCi/L, g, F): 0.111
Sample Duplicate Result (pCi/L, g, F): 0.096
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.064
Are sample and/or duplicate results below MDC? See Below ##
Duplicate Numerical Performance Indicator: 0.680
Duplicate RPD: 54.03%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Fail***

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
30209600005
30209600005DUP

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.
Sample MS I.D.
Sample MSD I.D.
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):

Sample Result: Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.
Sample MS I.D.
Sample MSD I.D.
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepped due to unacceptable precision.

John

Quality Control Sample Performance Assessment

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Test: Ra-228
Analyst: JLW
Date: 2/15/2017
Worklist: 33968
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1224567
MB concentration:	0.094
M/B Counting Uncertainty:	0.387
MB MDC:	0.887
MB Numerical Performance Indicator:	0.48
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	2/23/2017
Spike I.D.:	16-027
Spike Concentration (pCi/mL):	25.228
Volume Used (mL):	0.30
Aliquot Volume (L, g, F):	0.802
Target Conc. (pCi/L, g, F):	9.439
Uncertainty (Calculated):	0.680
Result (pCi/L, g, F):	8.775
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.867
Numerical Performance Indicator:	-1.18
Percent Recovery:	92.97%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample I.D.:	30209606003
Duplicate Sample I.D.:	30209606003DUP
Sample Result (pCi/L, g, F):	0.702
Sample Duplicate Result (pCi/L, g, F):	0.463
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.313
Are sample and/or duplicate results below MDC?	0.566
Duplicate Numerical Performance Indicator:	See Below #
Duplicate RPD:	-1.806
Duplicate Status vs Numerical Indicator:	60.66%
Duplicate Status vs RPD:	N/A
Duplicate Status vs Recovery:	Fail**

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepped due to unacceptable precision.

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

[Handwritten signature]

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 2/14/2017
Worklist: 33940
Matrix: DW

Method Blank Assessment

MB Sample ID: 1223624
MB concentration: 0.091
M/B Counting Uncertainty: 0.153
MB MDC: 0.342
MB Numerical Performance Indicator: 1.17
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

Count Date: 2/15/2017
Spike I.D.: 16-026
Spike Concentration: (pCi/mL): 44.669
Volume Used (mL): 0.10
Aliquot Volume (L, g, F): 0.506
Target Conc. (pCi/L, g, F): 8.835
Uncertainty (Calculated): 0.416
Result (pCi/L, g, F): 7.810
LCS/LCSD Counting Uncertainty (pCi/L, g, F): 0.845
Numerical Performance Indicator: -2.13
Percent Recovery: 88.39%
Status vs Numerical Indicator: N/A
Status vs Recovery: Pass

Duplicate Sample Assessment

Sample I.D.: 30209606003
Duplicate Sample I.D.: 30209606003DUP
Sample Result (pCi/L, g, F): 0.326
Sample Result Counting Uncertainty (pCi/L, g, F): 0.256
Sample Duplicate Result (pCi/L, g, F): 0.234
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.182
Are sample and/or duplicate results below MDC? See Below #
Duplicate Numerical Performance Indicator: 0.569
Duplicate RPD: 32.60%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Fail***

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
30209606003
30209606003DUP

*** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepped due to unacceptable precision.

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc.(pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

**Georgia Power
2480 Maner Road
Atlanta, GA 30339**

Attention: Mr. Joju Abraham

Report Number: AAA0956

February 07, 2017

Project: CCR Event

Project #:Plant Kraft

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:

A handwritten signature in black ink that reads "Betsy McDaniel" written over a horizontal line.

Project Manager

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All test results relate only to the samples analyzed.



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

February 07, 2017

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KMW-07	AAA0956-01	Ground Water	01/30/17 16:33	01/31/17 09:25
Dup-01	AAA0956-02	Ground Water	01/30/17 00:00	01/31/17 09:25
KMW-02	AAA0956-03	Ground Water	01/30/17 15:30	01/31/17 09:25
KMW-01	AAA0956-04	Ground Water	01/30/17 15:00	01/31/17 09:25



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

February 07, 2017

Attention: Mr. Joju Abraham

Report No.: AAA0956

Project: CCR Event

Client ID: KMW-07

Lab Number ID: AAA0956-01

Date/Time Sampled: 1/30/2017 4:33:00PM

Date/Time Received: 1/31/2017 9:25:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	2080	25	10	mg/L	SM 2540 C		1	02/02/17 12:10	02/02/17 12:10	7020046	JPT
Inorganic Anions											
Chloride	1000	25	1.3	mg/L	EPA 300.0		100	01/31/17 09:35	02/04/17 08:13	7010769	RLC
Fluoride	0.99	0.30	0.004	mg/L	EPA 300.0		1	01/31/17 09:35	01/31/17 20:39	7010769	RLC
Sulfate	400	100	9.2	mg/L	EPA 300.0		100	01/31/17 09:35	02/04/17 08:13	7010769	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Arsenic	0.0063	0.0050	0.0016	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Barium	0.0437	0.0100	0.0004	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Beryllium	0.0011	0.0030	0.00008	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/03/17 14:22	7020013	KLH
Boron	0.763	0.0400	0.0064	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Calcium	36.0	2.50	0.155	mg/L	EPA 6020B	B-01	5	02/01/17 15:35	02/03/17 14:28	7020013	KLH
Chromium	0.0018	0.0100	0.0009	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Cobalt	0.0015	0.0100	0.0005	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Lead	0.0003	0.0050	0.0001	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Selenium	0.0165	0.0100	0.0010	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Lithium	0.0043	0.0500	0.0021	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 20:35	7020013	KLH
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	02/02/17 12:05	02/02/17 17:24	7020032	MTC



PACE ANALYTICAL SERVICES, LLC.

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 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

February 07, 2017

Attention: Mr. Joju Abraham

Report No.: AAA0956

Project: CCR Event

Client ID: Dup-01

Lab Number ID: AAA0956-02

Date/Time Sampled: 1/30/2017 12:00:00AM

Date/Time Received: 1/31/2017 9:25:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	267	25	10	mg/L	SM 2540 C		1	02/02/17 12:10	02/02/17 12:10	7020046	JPT
Inorganic Anions											
Chloride	83	2.5	0.13	mg/L	EPA 300.0		10	01/31/17 09:35	02/04/17 08:35	7010769	RLC
Fluoride	0.16	0.30	0.004	mg/L	EPA 300.0	J	1	01/31/17 09:35	01/31/17 22:24	7010769	RLC
Sulfate	80	10	0.92	mg/L	EPA 300.0		10	01/31/17 09:35	02/04/17 08:35	7010769	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Arsenic	0.0385	0.0050	0.0016	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Barium	0.0548	0.0100	0.0004	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Beryllium	ND	0.0030	0.00008	mg/L	EPA 6020B		1	02/01/17 15:35	02/03/17 14:34	7020013	KLH
Boron	0.469	0.0400	0.0064	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Calcium	6.48	0.500	0.0311	mg/L	EPA 6020B	B-01	1	02/01/17 15:35	02/03/17 14:34	7020013	KLH
Chromium	0.0018	0.0100	0.0009	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Cobalt	ND	0.0100	0.0005	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Lead	ND	0.0050	0.0001	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Selenium	0.0014	0.0100	0.0010	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Lithium	0.0034	0.0500	0.0021	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 20:47	7020013	KLH
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	02/02/17 12:05	02/02/17 17:26	7020032	MTC



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

February 07, 2017

Report No.: AAA0956

Project: CCR Event

Client ID: KMW-02

Lab Number ID: AAA0956-03

Date/Time Sampled: 1/30/2017 3:30:00PM

Date/Time Received: 1/31/2017 9:25:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	259	25	10	mg/L	SM 2540 C		1	02/02/17 12:10	02/02/17 12:10	7020046	JPT
Inorganic Anions											
Chloride	82	2.5	0.13	mg/L	EPA 300.0		10	01/31/17 09:35	02/04/17 08:57	7010769	RLC
Fluoride	0.13	0.30	0.004	mg/L	EPA 300.0	J	1	01/31/17 09:35	01/31/17 22:44	7010769	RLC
Sulfate	80	10	0.92	mg/L	EPA 300.0		10	01/31/17 09:35	02/04/17 08:57	7010769	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Arsenic	0.0374	0.0050	0.0016	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Barium	0.0530	0.0100	0.0004	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Beryllium	ND	0.0030	0.00008	mg/L	EPA 6020B		1	02/01/17 15:35	02/03/17 14:58	7020013	KLH
Boron	0.460	0.0400	0.0064	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Cadmium	ND	0.0010	0.00007	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Calcium	6.66	0.500	0.0311	mg/L	EPA 6020B	B-01	1	02/01/17 15:35	02/03/17 14:58	7020013	KLH
Chromium	0.0017	0.0100	0.0009	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Cobalt	ND	0.0100	0.0005	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Lead	ND	0.0050	0.0001	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Selenium	ND	0.0100	0.0010	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Thallium	ND	0.0010	0.0002	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Lithium	0.0033	0.0500	0.0021	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 20:58	7020013	KLH
Mercury	ND	0.00050	0.000041	mg/L	EPA 7470A		1	02/02/17 12:05	02/02/17 17:29	7020032	MTC



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Georgia Power
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 Atlanta GA, 30339

February 07, 2017

Attention: Mr. Joju Abraham

Report No.: AAA0956

Project: CCR Event

Client ID: KMW-01

Lab Number ID: AAA0956-04

Date/Time Sampled: 1/30/2017 3:00:00PM

Date/Time Received: 1/31/2017 9:25:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	2850	25	10	mg/L	SM 2540 C		1	02/02/17 12:10	02/02/17 12:10	7020046	JPT
Inorganic Anions											
Chloride	1500	25	1.3	mg/L	EPA 300.0		100	01/31/17 09:35	02/04/17 09:18	7010769	RLC
Fluoride	0.65	0.30	0.004	mg/L	EPA 300.0		1	01/31/17 09:35	01/31/17 23:05	7010769	RLC
Sulfate	320	100	9.2	mg/L	EPA 300.0		100	01/31/17 09:35	02/04/17 09:18	7010769	RLC
Metals, Total											
Antimony	ND	0.0030	0.0008	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Arsenic	0.0073	0.0050	0.0016	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Barium	0.0448	0.0100	0.0004	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Beryllium	0.0032	0.0030	0.00008	mg/L	EPA 6020B		1	02/01/17 15:35	02/03/17 15:10	7020013	KLH
Boron	1.06	0.0400	0.0064	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Cadmium	0.0002	0.0010	0.00007	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Calcium	127	25.0	1.55	mg/L	EPA 6020B	B-01	50	02/01/17 15:35	02/03/17 15:15	7020013	KLH
Chromium	0.0032	0.0100	0.0009	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Cobalt	0.0248	0.0100	0.0005	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Lead	0.0014	0.0050	0.0001	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Molybdenum	ND	0.0100	0.0017	mg/L	EPA 6020B		1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Selenium	0.0092	0.0100	0.0010	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Thallium	0.0008	0.0010	0.0002	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Lithium	0.0178	0.0500	0.0021	mg/L	EPA 6020B	J	1	02/01/17 15:35	02/02/17 21:10	7020013	KLH
Mercury	0.00006	0.00050	0.000041	mg/L	EPA 7470A	B-01, J	1	02/06/17 12:45	02/06/17 16:46	7020113	MTC



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February 07, 2017

Report No.: AAA0956

General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020046 - SM 2540 C											
Blank (7020046-BLK1)						Prepared & Analyzed: 02/02/17					
Total Dissolved Solids	ND	25	10	mg/L							
LCS (7020046-BS1)						Prepared & Analyzed: 02/02/17					
Total Dissolved Solids	374	25	10	mg/L	400.00		94	84-108			
Duplicate (7020046-DUP1)						Source: AAA0992-05 Prepared & Analyzed: 02/02/17					
Total Dissolved Solids	ND	25	10	mg/L		ND				10	



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Inorganic Anions - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7010769 - EPA 300.0											
Blank (7010769-BLK1)						Prepared & Analyzed: 01/31/17					
Chloride	ND	0.25	0.01	mg/L							
Fluoride	ND	0.30	0.004	mg/L							
Sulfate	ND	1.0	0.09	mg/L							
LCS (7010769-BS1)						Prepared & Analyzed: 01/31/17					
Chloride	10.4	0.25	0.01	mg/L	10.010		104	90-110			
Fluoride	10.4	0.30	0.004	mg/L	10.020		104	90-110			
Sulfate	10.3	1.0	0.09	mg/L	10.020		103	90-110			
Matrix Spike (7010769-MS1)						Source: AAA0909-02 Prepared & Analyzed: 01/31/17					
Chloride	16.6	0.25	0.01	mg/L	10.010	6.98	96	90-110			
Fluoride	11.1	0.30	0.004	mg/L	10.020	0.29	108	90-110			
Sulfate	82.2	1.0	0.09	mg/L	10.020	80.8	14	90-110			QM-02
Matrix Spike (7010769-MS2)						Source: AAA0909-10 Prepared & Analyzed: 01/31/17					
Chloride	147	0.25	0.01	mg/L	10.010	153	NR	90-110			QM-02
Fluoride	14.4	0.30	0.004	mg/L	10.020	0.71	137	90-110			QM-05
Sulfate	413	1.0	0.09	mg/L	10.020	438	NR	90-110			QM-02
Matrix Spike Dup (7010769-MSD1)						Source: AAA0909-02 Prepared & Analyzed: 01/31/17					
Chloride	16.7	0.25	0.01	mg/L	10.010	6.98	97	90-110	0.08	15	
Fluoride	11.2	0.30	0.004	mg/L	10.020	0.29	109	90-110	0.3	15	
Sulfate	82.3	1.0	0.09	mg/L	10.020	80.8	15	90-110	0.1	15	QM-02



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Report No.: AAA0956

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020013 - EPA 3005A											
Blank (7020013-BLK1)											
						Prepared: 02/01/17 Analyzed: 02/02/17					
Antimony	ND	0.0030	0.0008	mg/L							
Arsenic	ND	0.0050	0.0016	mg/L							
Barium	ND	0.0100	0.0004	mg/L							
Beryllium	ND	0.0030	0.00008	mg/L							
Boron	ND	0.0400	0.0064	mg/L							
Cadmium	ND	0.0010	0.00007	mg/L							
Calcium	0.125	0.500	0.0311	mg/L							J
Chromium	ND	0.0100	0.0009	mg/L							
Cobalt	ND	0.0100	0.0005	mg/L							
Copper	ND	0.0250	0.0005	mg/L							
Lead	ND	0.0050	0.0001	mg/L							
Molybdenum	ND	0.0100	0.0017	mg/L							
Nickel	ND	0.0100	0.0006	mg/L							
Selenium	ND	0.0100	0.0010	mg/L							
Silver	ND	0.0100	0.0005	mg/L							
Thallium	ND	0.0010	0.0002	mg/L							
Vanadium	ND	0.0100	0.0071	mg/L							
Zinc	0.0044	0.0100	0.0021	mg/L							J
Lithium	ND	0.0500	0.0021	mg/L							
LCS (7020013-BS1)											
						Prepared: 02/01/17 Analyzed: 02/02/17					
Antimony	0.110	0.0030	0.0008	mg/L	0.10000		110	80-120			
Arsenic	0.107	0.0050	0.0016	mg/L	0.10000		107	80-120			
Barium	0.101	0.0100	0.0004	mg/L	0.10000		101	80-120			
Beryllium	0.106	0.0030	0.00008	mg/L	0.10000		106	80-120			
Boron	1.07	0.0400	0.0064	mg/L	1.0000		107	80-120			
Cadmium	0.103	0.0010	0.00007	mg/L	0.10000		103	80-120			
Calcium	1.12	0.500	0.0311	mg/L	1.0000		112	80-120			
Chromium	0.118	0.0100	0.0009	mg/L	0.10000		118	80-120			
Cobalt	0.109	0.0100	0.0005	mg/L	0.10000		109	80-120			
Copper	0.109	0.0250	0.0005	mg/L	0.10000		109	80-120			
Lead	0.104	0.0050	0.0001	mg/L	0.10000		104	80-120			
Molybdenum	0.106	0.0100	0.0017	mg/L	0.10000		106	80-120			
Nickel	0.112	0.0100	0.0006	mg/L	0.10000		112	80-120			
Selenium	0.113	0.0100	0.0010	mg/L	0.10000		113	80-120			
Silver	0.104	0.0100	0.0005	mg/L	0.10000		104	80-120			
Thallium	0.101	0.0010	0.0002	mg/L	0.10000		101	80-120			
Vanadium	0.115	0.0100	0.0071	mg/L	0.10000		115	80-120			
Zinc	0.114	0.0100	0.0021	mg/L	0.10000		114	80-120			
Lithium	0.104	0.0500	0.0021	mg/L	0.10000		104	80-120			



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Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020013 - EPA 3005A											
Matrix Spike (7020013-MS1)			Source: AAA0909-01				Prepared: 02/01/17 Analyzed: 02/02/17				
Antimony	0.115	0.0030	0.0008	mg/L	0.10000	ND	115	75-125			
Arsenic	0.116	0.0050	0.0016	mg/L	0.10000	ND	116	75-125			
Barium	0.255	0.0100	0.0004	mg/L	0.10000	0.142	113	75-125			
Beryllium	0.0906	0.0030	0.00008	mg/L	0.10000	ND	91	75-125			
Boron	2.88	0.0400	0.0064	mg/L	1.0000	1.87	102	75-125			
Cadmium	0.100	0.0010	0.00007	mg/L	0.10000	ND	100	75-125			
Calcium	184	25.0	1.55	mg/L	1.0000	175	853	75-125			QM-02
Chromium	0.117	0.0100	0.0009	mg/L	0.10000	ND	117	75-125			
Cobalt	0.111	0.0100	0.0005	mg/L	0.10000	0.0006	110	75-125			
Copper	0.104	0.0250	0.0005	mg/L	0.10000	ND	104	75-125			
Lead	0.0977	0.0050	0.0001	mg/L	0.10000	0.0001	98	75-125			
Molybdenum	0.141	0.0100	0.0017	mg/L	0.10000	0.0234	118	75-125			
Nickel	0.112	0.0100	0.0006	mg/L	0.10000	0.0009	111	75-125			
Selenium	0.112	0.0100	0.0010	mg/L	0.10000	ND	112	75-125			
Silver	0.0985	0.0100	0.0005	mg/L	0.10000	ND	98	75-125			
Thallium	0.0988	0.0010	0.0002	mg/L	0.10000	ND	99	75-125			
Vanadium	0.119	0.0100	0.0071	mg/L	0.10000	ND	119	75-125			
Zinc	0.110	0.0100	0.0021	mg/L	0.10000	0.0055	104	75-125			
Lithium	0.0974	0.0500	0.0021	mg/L	0.10000	0.0042	93	75-125			
Matrix Spike Dup (7020013-MSD1)			Source: AAA0909-01				Prepared: 02/01/17 Analyzed: 02/02/17				
Antimony	0.112	0.0030	0.0008	mg/L	0.10000	ND	112	75-125	3	20	
Arsenic	0.116	0.0050	0.0016	mg/L	0.10000	ND	116	75-125	0.5	20	
Barium	0.242	0.0100	0.0004	mg/L	0.10000	0.142	101	75-125	5	20	
Beryllium	0.0921	0.0030	0.00008	mg/L	0.10000	ND	92	75-125	2	20	
Boron	2.91	0.0400	0.0064	mg/L	1.0000	1.87	104	75-125	0.7	20	
Cadmium	0.102	0.0010	0.00007	mg/L	0.10000	ND	102	75-125	1	20	
Calcium	189	25.0	1.55	mg/L	1.0000	175	NR	75-125	3	20	QM-02
Chromium	0.115	0.0100	0.0009	mg/L	0.10000	ND	115	75-125	2	20	
Cobalt	0.110	0.0100	0.0005	mg/L	0.10000	0.0006	109	75-125	1	20	
Copper	0.102	0.0250	0.0005	mg/L	0.10000	ND	102	75-125	1	20	
Lead	0.0986	0.0050	0.0001	mg/L	0.10000	0.0001	98	75-125	0.9	20	
Molybdenum	0.132	0.0100	0.0017	mg/L	0.10000	0.0234	108	75-125	7	20	
Nickel	0.108	0.0100	0.0006	mg/L	0.10000	0.0009	107	75-125	4	20	
Selenium	0.115	0.0100	0.0010	mg/L	0.10000	ND	115	75-125	2	20	
Silver	0.0962	0.0100	0.0005	mg/L	0.10000	ND	96	75-125	2	20	
Thallium	0.0985	0.0010	0.0002	mg/L	0.10000	ND	98	75-125	0.3	20	
Vanadium	0.116	0.0100	0.0071	mg/L	0.10000	ND	116	75-125	2	20	
Zinc	0.111	0.0100	0.0021	mg/L	0.10000	0.0055	105	75-125	0.7	20	
Lithium	0.101	0.0500	0.0021	mg/L	0.10000	0.0042	97	75-125	4	20	



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Attention: Mr. Joju Abraham

February 07, 2017

Report No.: AAA0956

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020013 - EPA 3005A											
Post Spike (7020013-PS1)			Source: AAA0909-01			Prepared: 02/01/17 Analyzed: 02/02/17					
Antimony	104			ug/L	100.00	0.572	103	80-120			
Arsenic	118			ug/L	100.00	0.952	117	80-120			
Barium	249			ug/L	100.00	142	107	80-120			
Beryllium	89.5			ug/L	100.00	0.0129	89	80-120			
Boron	2800			ug/L	1000.0	1870	93	80-120			
Cadmium	101			ug/L	100.00	0.0242	101	80-120			
Calcium	180000			ug/L	1000.0	175000	432	80-120			QM-02
Chromium	119			ug/L	100.00	0.0861	118	80-120			
Cobalt	109			ug/L	100.00	0.595	108	80-120			
Copper	105			ug/L	100.00	0.484	105	80-120			
Lead	98.5			ug/L	100.00	0.122	98	80-120			
Molybdenum	134			ug/L	100.00	23.4	110	80-120			
Nickel	109			ug/L	100.00	0.947	109	80-120			
Selenium	117			ug/L	100.00	0.426	116	80-120			
Silver	94.8			ug/L	100.00	0.0211	95	80-120			
Thallium	100			ug/L	100.00	0.0533	100	80-120			
Vanadium	121			ug/L	100.00	-0.716	121	80-120			
Zinc	111			ug/L	100.00	5.50	105	80-120			
Lithium	98.7			ug/L	100.00	4.24	94	80-120			

Batch 7020032 - EPA 7470A

Blank (7020032-BLK1)					Prepared & Analyzed: 02/02/17						
Mercury	ND	0.00050	0.000041	mg/L							
LCS (7020032-BS1)					Prepared & Analyzed: 02/02/17						
Mercury	0.00252	0.00050	0.000041	mg/L	2.5000E-3		101	80-120			



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

February 07, 2017

Report No.: AAA0956

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020032 - EPA 7470A											
Matrix Spike (7020032-MS1)			Source: AAA0909-10			Prepared & Analyzed: 02/02/17					
Mercury	0.00253	0.00050	0.000041	mg/L	2.5000E-3	0.00008	98	75-125			
Matrix Spike Dup (7020032-MSD1)			Source: AAA0909-10			Prepared & Analyzed: 02/02/17					
Mercury	0.00249	0.00050	0.000041	mg/L	2.5000E-3	0.00008	96	75-125	2	20	
Post Spike (7020032-PS1)			Source: AAA0909-10			Prepared & Analyzed: 02/02/17					
Mercury	1.67			ug/L	1.6667	0.0534	97	80-120			
Batch 7020113 - EPA 7470A											
Blank (7020113-BLK1)						Prepared & Analyzed: 02/06/17					
Mercury	0.00007	0.00050	0.000041	mg/L							J
LCS (7020113-BS1)						Prepared & Analyzed: 02/06/17					
Mercury	0.00238	0.00050	0.000041	mg/L	2.5000E-3		95	80-120			
Matrix Spike (7020113-MS1)			Source: AAA0956-04			Prepared & Analyzed: 02/06/17					
Mercury	0.00234	0.00050	0.000041	mg/L	2.5000E-3	0.00006	91	75-125			
Matrix Spike Dup (7020113-MSD1)			Source: AAA0956-04			Prepared & Analyzed: 02/06/17					
Mercury	0.00235	0.00050	0.000041	mg/L	2.5000E-3	0.00006	92	75-125	0.7	20	
Post Spike (7020113-PS1)			Source: AAA0956-04			Prepared & Analyzed: 02/06/17					
Mercury	1.72			ug/L	1.6667	0.0422	101	80-120			



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Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

February 07, 2017

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
- BRL** - Not Detected at levels equal to or greater than the RL
- RL** - Reporting Limit **MDL** - Method Detection Limit
- SOP** - Method run per Pace Standard Operating Procedure
- CFU** - Colony Forming Units
- DF** - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- QM-05** The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.
- QM-02** The spike recovery is outside acceptance limits due to insignificant spike amount as compared to sample concentration.
- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).
- B-01** Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

Pace Analytical Services, Inc
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201



CHAIN OF CUSTODY RECORD

CLIENT NAME: SOUTHERN COMPANY SERVICES
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
 241 RALPH MCGILL BLVD SE 810185
 ATLANTA, GA 30308
 404.506.7239

REPORT TO: LAUREN PLETY
 CC: STEPHEN MILNER (RESERVE)
 MICHAEL GATTI (W/VE) (SPECIALTY)
 PO #: 100M
 LABEL: HAZ/SLURRY/NO.12/04

REQUESTED COMPLETION DATE:
 PROJECT NAME/STATE: PLANT KRAFT

PROJECT #: GPC CCR KRAFT

Collection DATE	Collection TIME	MATRIX CODE*	SAMPLE IDENTIFICATION				DATE/TIME: 01/30/17 17:30	DATE/TIME:
			C O M P	G R A B				
01/30/17	1633	GW	X	X	KRW-07			
01/30/17	-	GW	X	X	DUP-01			
01/30/17	1530	GW	X	X	KMW-02			
01/30/17	1500	GW	X	X	KMW-01			
[REMAINDER OF TABLE IS HIDDEN]								

SAMPLED BY AND TITLE: MICHAEL GATTI
 RECEIVED BY: HEWARD PLETY

DATE/TIME: 01/30/17 17:30
 DATE/TIME:

CONTAINER TYPE: P - PLASTIC
 A - AMBER GLASS
 G - CLEAR GLASS
 V - VOA VIAL
 S - STERILE
 O - OTHER

PRESERVATION: 1 - HCl, 58°C
 2 - H₂SO₄, 58°C
 3 - HNO₃
 4 - NaOH, 58°C
 5 - NaOH/ZnAc, 58°C
 6 - Na₂S₂O₃, 58°C
 7 - 58°C not frozen

*MATRIX CODES:
 DW - DRINKING WATER S - SOIL
 WW - WASTEWATER SL - SLUDGE
 GW - GROUNDWATER SD - SOLID
 SW - SURFACE WATER A - AIR
 ST - STORM WATER L - LIQUID
 W - WATER P - PRODUCT

REMARKS/ADDITIONAL INFORMATION
 1 COOLER
 2
 3
 4

LAB #
 Entered into LIMS:
 Tracking #:
 7854 5543 4417

FOR LAB USE ONLY
 AAA0956
 MR

ANALYSIS REQUESTED
 METALS APP III & IV (EPA 6020 / 3470)
 CL F, SO4 & TP5 (EPA 3000 & 3025/400)
 RADUW 226 & 238 (SM-246 946 / 9320)

CONTAINERS → 4
 RELINQUISHED BY: [Signature]
 DATE/TIME: 01/30/17 17:30

CLIENT: OTHER FS
 COURIER: # of Coolers
 SAMPLE SHIPPED VIA: UPS (FED-EX)
 USPS (Not Present)
 Broken Not Present

RECEIVED BY: [Signature]
 DATE/TIME: 01/31/17 0925
 Temperature: 10 Min: Max: 10



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 2/1/2017 1:16:45PM

Attn: Mr. Joju Abraham

Client: Georgia Power

Project: CCR Event

Date Received: 01/31/17 09:25

Work Order: AAA0956

Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 4

#Containers: 18

Minimum Temp(C): 1.0

Maximum Temp(C): 1.0

Custody Seal(s) Used: Yes

CHECKLIST ITEMS

- COC included with Samples YES
- Sample Container(s) Intact YES
- Chain of Custody Complete YES
- Sample Container(s) Match COC YES
- Custody seal Intact YES
- Temperature in Compliance YES
- Sufficient Sample Volume for Analysis YES
- Zero Headspace Maintained for VOA Analyses YES
- Samples labeled preserved (If Applicable) YES
- Samples received within Allowable Hold Times YES
- Samples Received on Ice YES
- Preservation Confirmed YES

Comments:

February 27, 2017

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Kraft
Pace Project No.: 30209606

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Plant Kraft

Pace Project No.: 30209606

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft

Pace Project No.: 30209606

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30209606001	KMW-07	Water	01/30/17 16:33	02/02/17 10:05
30209606002	Dup-01	Water	01/30/17 00:00	02/02/17 10:05
30209606003	KMW-02	Water	01/30/17 15:30	02/02/17 10:05
30209606004	KMW-01	Water	01/30/17 15:00	02/02/17 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft
Pace Project No.: 30209606

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30209606001	KMW-07	EPA 9315	LAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30209606002	Dup-01	EPA 9315	LAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30209606003	KMW-02	EPA 9315	LAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30209606004	KMW-01	EPA 9315	LAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft
Pace Project No.: 30209606

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: KMW-07		Lab ID: 30209606001	Collected: 01/30/17 16:33	Received: 02/02/17 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315		1.92 ± 0.531 (0.311) C:86% T:NA	pCi/L	02/15/17 10:11	13982-63-3	
Radium-228	EPA 9320		4.29 ± 1.05 (0.940) C:61% T:91%	pCi/L	02/23/17 16:15	15262-20-1	
Total Radium	Total Radium Calculation		6.21 ± 1.58 (1.25)	pCi/L	02/24/17 16:21	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Dup-01		Lab ID: 30209606002	Collected: 01/30/17 00:00	Received: 02/02/17 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315		0.382 ± 0.229 (0.313) C:86% T:NA	pCi/L	02/15/17 10:11	13982-63-3	
Radium-228	EPA 9320		0.236 ± 0.514 (1.14) C:52% T:77%	pCi/L	02/23/17 15:49	15262-20-1	
Total Radium	Total Radium Calculation		0.618 ± 0.743 (1.45)	pCi/L	02/24/17 16:21	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: KMW-02		Lab ID: 30209606003	Collected: 01/30/17 15:30	Received: 02/02/17 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315		0.326 ± 0.261 (0.477) C:81% T:NA	pCi/L	02/15/17 10:11	13982-63-3	
Radium-228	EPA 9320		0.702 ± 0.499 (0.962) C:58% T:78%	pCi/L	02/23/17 11:47	15262-20-1	
Total Radium	Total Radium Calculation		1.03 ± 0.760 (1.44)	pCi/L	02/24/17 16:21	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: KMW-01		Lab ID: 30209606004	Collected: 01/30/17 15:00	Received: 02/02/17 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315		2.37 ± 0.608 (0.312) C:84% T:NA	pCi/L	02/15/17 10:11	13982-63-3	
Radium-228	EPA 9320		9.08 ± 1.81 (0.546) C:73% T:88%	pCi/L	02/23/17 11:47	15262-20-1	
Total Radium	Total Radium Calculation		11.5 ± 2.42 (0.858)	pCi/L	02/24/17 16:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 30209606

QC Batch:	248965	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	30209606001, 30209606002, 30209606003, 30209606004		

METHOD BLANK:	1224567	Matrix:	Water
Associated Lab Samples:	30209606001, 30209606002, 30209606003, 30209606004		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0945 ± 0.388 (0.887) C:53% T:83%	pCi/L	02/23/17 11:46	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 30209606

QC Batch: 248825

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 30209606001, 30209606002, 30209606003, 30209606004

METHOD BLANK: 1223624

Matrix: Water

Associated Lab Samples: 30209606001, 30209606002, 30209606003, 30209606004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0911 ± 0.153 (0.342) C:91% T:NA	pCi/L	02/15/17 09:03	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft
Pace Project No.: 30209606

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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WO#: 30209606



30209606

Chain of Custody



Results Requested By: 2/24/2017

Owner Received Date:

Workorder Name: Plant Kraft

Workorder: AAA0956

Report To:		Subcontract To:		Requested Analysis							
Betsy McDaniel		Pace - Pittsburgh									
Pace Analytical Atlanta		1638 Roseytown Road									
110 Technology Parkway		Stes. 2,3,4									
Peachtree Corners, GA 30092		Greensburg, PA 15601									
Phone (770)-734-4200		Phone (724) 850-5600									
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	LAB USE ONLY				
1	KMW-07	G	1/30/2017 16:33	AAA0956-01	GW	2	001				
2	Dup-01	G	1/30/2017 0:00	AAA0956-02	GW	2	002				
3	KMW-02	G	1/30/2017 15:30	AAA0956-03	GW	4	003				
4	KMW-01	G	1/30/2017 15:00	AAA0956-04	GW	2	004				
5											
6											
7											
8											
9											
10											
Transfers		Released By		Date/Time		Received By		Date/Time		Comments	
1						Christine Pace		2-2-17/1005			
2											
3											

Cooler Temperature on Receipt NA °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical Services, Inc
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201



CHAIN OF CUSTODY RECORD

CLIENT NAME: SOUTHERN COMPANY SERVICES
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
 241 RALPH MCGILL BLVD SE 810185
 ATLANTA, GA 30308
 404.506.7239
 REPORT TO: LAUREN (PETTY)
 CC: STEPHEN MILNER (RESOURCES)
 MICHAEL CARTER (LABORATORY)
 REQUESTED COMPLETION DATE: [blank]
 PROJECT NAME/STATE: PLANT KRAFT

PROJECT #: GPC CCR KRAFT

Collection DATE	Collection TIME	MATRIX CODE*	COM P	GRA B	SAMPLE IDENTIFICATION
01/30/17	1633	GW	X	X	KMW-07
01/30/17	-	GW	X	X	DUF-01
01/30/17	1530	GW	X	X	KMW-02
01/30/17	1500	GW	X	X	KMW-01

CONTAINER TYPE	ANALYSIS REQUESTED	CONTAINER TYPE	LAB ID NUMBER	REMARKS/ADDITIONAL INFORMATION	CONTAINER TYPE	PRESERVATION
METALS APP III & IV (EPA 6020/3470)	3	P	1	1 COOLER	P - PLASTIC	1 - HCl, 56°C
CL F, SO4 & TDS (EPA 8020 & 3470)	7	P	2		A - AMBER GLASS	2 - H2SO4, 56°C
RADON 226 & 228 (SM-246 945/9320)	3	P	3		G - CLEAR GLASS	3 - HNO3
	4	P	4		V - VOA VIAL	4 - NaOH, 56°C
	6	P	5		S - OTHER	5 - NaOH/ZnAc, 56°C
	4	P	6		O - OTHER	6 - Na2S2O3, 56°C
						7 - 56°C not frozen

SAMPLED BY AND TITLE: MICHAEL PRINCE / NEWARK DATA LAB
 RECEIVED BY: [Signature]
 DATE/TIME: 01/30/17 17:30
 DATE/TIME: [blank]
 DATE/TIME: 01/31/17 09:25
 Temperature: 10 Min Max
 Yes No NA
 RECEIVED BY LAB: [Signature]
 ALL CHECKED: Yes No NA

RELINQUISHED BY: [Signature]
 DATE/TIME: 01/30/17 17:30
 RELINQUISHED BY: [Signature]
 DATE/TIME: [blank]
 SAMPLE SHIPPED VIA: UPS (FED-EX)
 CUSTODY SEAL: Intact Broken Not Present
 COURIER: [Signature]
 # of Coolers: [blank]
 CLIENT: [blank]
 OTHER: FS
 COOLA ID: [blank]
 TRACKING #: 7854 5340 4417
 LAB #: AAA0956
 ENTERED INTO LIMS: [Signature]

Sample Condition Upon Receipt Pittsburgh



Client Name: Pace, GA

Project # 30209606

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5102 0454

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: Q9R 2-2-17

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Organic Samples checked for dechlorination:			X	13.
Filtered volume received for Dissolved tests			X	14.
All containers have been checked for preservation.	X			15.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed <u>Q9R</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	16.
Trip Blank Present:		X		17.
Trip Blank Custody Seals Present		X		
Rad Aqueous Samples Screened > 0.5 mrem/hr		X		Initial when completed <u>Q9R</u> Date: <u>2-2-17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment

Test: Ra-228

Analyst: JLW
Date: 2/15/2017
Worklist: 33968
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	MB Sample ID 1224567
MB Concentration:	0.094
MB Counting Uncertainty:	0.387
MB MDC:	0.887
MB Numerical Performance Indicator:	0.48
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS# (Y or N)? N LCS033968
Count Date:	2/23/2017
Spike I.D.:	16-027
Spike Concentration (pCi/mL):	25.228
Volume Used (mL):	0.30
Aliquot Volume (L, g, F):	0.802
Target Conc. (pCi/L, g, F):	9.439
Uncertainty (Calculated):	0.680
Result (pCi/L, g, F):	8.775
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.867
Numerical Performance Indicator:	-1.18
Percent Recovery:	92.97%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below. 30209606003 30209606003DUP
Sample I.D.:	30209606003
Duplicate Sample I.D.:	30209606003DUP
Sample Result (pCi/L, g, F):	0.702
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.483
Sample Duplicate Result (pCi/L, g, F):	1.313
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.568
Are sample and/or duplicate results below MDC?	See Below ##
Duplicate Numerical Performance Indicator:	-1.606
Duplicate RPD:	60.66%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail**

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepped due to unacceptable precision.

Sample Matrix Spike Control Assessment	Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD:
---	--

JLW
[Signature]

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 2/14/2017
Worklist: 33940
Matrix: DW

Method Blank Assessment

MB Sample ID: 1223624
MB concentration: 0.091
MB Counting Uncertainty: 0.153
MB MDC: 0.342
MB Numerical Performance Indicator: 1.17
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: Pass

Laboratory Control Sample Assessment

LCS (Y or N)? N
LCS ID: LCSD33940

Count Date: 2/15/2017
Spike I.D.: 16-028
Spike Concentration (pCi/mL): 44.689
Volume Used (mL): 0.10
Aliquot Volume (L, g, F): 0.506
Target Conc. (pCi/L, g, F): 8.835
Uncertainty (Calculated): 0.416
Result (pCi/L, g, F): 7.810
LCS/LCSD Counting Uncertainty (pCi/L, g, F): 0.845
Numerical Performance Indicator: -2.13
Percent Recovery: 88.39%
Status vs Numerical Indicator: N/A
Status vs Recovery: Pass

Duplicate Sample Assessment

Sample I.D.: 30209606003
Duplicate Sample I.D.: 30209606003DUP

Sample Result Counting Uncertainty (pCi/L, g, F): 0.326
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.256
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.234
Are sample and/or duplicate results below MDC? See Below #
Duplicate Numerical Performance Indicator: 0.569
Duplicate RPD: 32.60%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Fail**

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
30209606003
30209606003DUP

Evaluation of duplicate precision is not applicable if either the sample or duplicate result is below the MDC.

Comments:

***Batch must be re-prepped due to unacceptable precision.

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):

Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 26, 2017

Leah Millet
Georgia Power Company

241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1707L12

Analytical Environmental Services, Inc. received 3 samples on 7/26/2017 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager



CHAIN OF CUSTODY

COMPANY: Georgia Power Company ADDRESS: 241 Ralph McGill Blvd SE B 10185 Atlanta GA 30308

PHONE: 770 296 9648 EMAIL: forrest.howard@aesatlanta.com

SAMPLED BY: Forrest Howard SIGNATURE: [Signature]

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AES Access account.

CPAG020 AS ONLY

#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)	REMARKS	Number of Containers
		DATE	TIME						
1	KMW-02 @ 50	7/25/17	1142	X		GW	X		1
2	KMW-02 @ 100	7/25/17	1203	X		GW	X		1
3	KMW-02 @ 150	7/25/17	1228	X		GW	X		1
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY: [Signature] DATE/TIME: 7/25/17 1730 RECEIVED BY: Tofelox [Signature] DATE/TIME: 7/26/17 1030

PROJECT INFORMATION: PROJECT NAME: Plant Kraft PROJECT #: SITE ADDRESS: 155 crossgate Rd Periwentworth GA SEND REPORT TO: inccomments INVOICE TO: GPC Environmental Affairs (IF DIFFERENT FROM ABOVE) QUOTE #: PO#:

RECEIPT: Total # of Containers: 3 Turnaround Time (TAT) Request: Standard 5 Business Days 2 Business Day Rush Next Business Day Rush Same-Day Rush (auth req.) Other

SPECIAL INSTRUCTIONS/COMMENTS: Report to Stephen Wilson Trent Godwin Forrest Howard Ken Millet Vicki Beaman

SHIPMENT METHOD: OUT: / / VIA: IN: / / VIA: client FedEx UPS US mail courier Greyhound other:

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 26-Jul-17

Client: Georgia Power Company	Client Sample ID: KMW-02@50
Project Name: Plant Kraft Excavation	Collection Date: 7/25/2017 11:42:00 AM
Lab ID: 1707L12-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	30.0	5.00		ug/L	246018	1	07/26/2017 17:16	JR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 26-Jul-17

Client: Georgia Power Company	Client Sample ID: KMW-02@100
Project Name: Plant Kraft Excavation	Collection Date: 7/25/2017 12:03:00 PM
Lab ID: 1707L12-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	31.1	5.00		ug/L	246018	1	07/26/2017 17:33	JR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 26-Jul-17

Client: Georgia Power Company	Client Sample ID: KMW-02@150
Project Name: Plant Kraft Excavation	Collection Date: 7/25/2017 12:28:00 PM
Lab ID: 1707L12-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	31.0	5.00		ug/L	246018	1	07/26/2017 17:37	JR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **GEORGIA POWER CO**

AES Work Order Number: **1707L12**

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TH 7/26/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TH 7/26/17

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
29. Containers meet preservation guidelines?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). TH 7/26/17



Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1707L12

ANALYTICAL QC SUMMARY REPORT

BatchID: 246018

Sample ID: MB-246018	Client ID:	Units: ug/L	Prep Date: 07/26/2017	Run No: 348407							
SampleType: MBLK	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 246018	Analysis Date: 07/26/2017	Seq No: 7653946							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 5.00

Sample ID: LCS-246018	Client ID:	Units: ug/L	Prep Date: 07/26/2017	Run No: 348407							
SampleType: LCS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 246018	Analysis Date: 07/26/2017	Seq No: 7653947							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 102.0 5.00 100.0 102 80 120

Sample ID: 1707L12-001AMS	Client ID: KMW-02@50	Units: ug/L	Prep Date: 07/26/2017	Run No: 348407							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 246018	Analysis Date: 07/26/2017	Seq No: 7653949							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 125.0 5.00 100.0 29.98 95.1 75 125

Sample ID: 1707L12-001AMSD	Client ID: KMW-02@50	Units: ug/L	Prep Date: 07/26/2017	Run No: 348407							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 246018	Analysis Date: 07/26/2017	Seq No: 7653950							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 131.4 5.00 100.0 29.98 101 75 125 125.0 4.97 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

Georgia Power

42 Inverness Center Parkway

Birmingham, AL 35242

Attention: Ms. Lauren Petty

Report Number: AAG0396

July 25, 2017

Project: Georgia HSRA Program

Project #:Plant Kraft

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:

A handwritten signature in black ink that reads "Betsy McDaniel" over a horizontal line.

Project Manager

This report may not be reproduced, except in full, without written approval from Pace Analytical Services, LLC.
All test results relate only to the samples analyzed.



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

July 25, 2017

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KMW-04	AAG0396-01	Ground Water	07/13/17 12:55	07/14/17 09:25



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

July 25, 2017

Case Narrative

The Radium analysis by methods EPA 9315/9320 was performed by Pace-Pittsburgh, 1638 Roseytown Road - Suites 2, 3, 4, Greensburg PA 15601. The Pace-Pittsburgh lab contact is Jacquelyn Collins at 724-850-5612.



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

July 25, 2017

Report No.: AAG0396

Project: Georgia HSRA Program

Client ID: KMW-04

Lab Number ID: AAG0396-01

Date/Time Sampled: 7/13/2017 12:55:00PM

Date/Time Received: 7/14/2017 9:25:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Metals, Total											
Arsenic	0.0038	0.0050	0.0005	mg/L	EPA 6020B	J	1	07/18/17 10:03	07/20/17 22:53	7070414	CSW



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 42 Inverness Center Parkway
 Birmingham AL, 35242

Attention: Ms. Lauren Petty

July 25, 2017

Report No.: AAG0396

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7070414 - EPA 3005A											
Blank (7070414-BLK1)						Prepared: 07/18/17 Analyzed: 07/20/17					
Arsenic	ND	0.0050	0.0005	mg/L							
LCS (7070414-BS1)						Prepared: 07/18/17 Analyzed: 07/20/17					
Arsenic	0.101	0.0050	0.0005	mg/L	0.10000		101	80-120			
Matrix Spike (7070414-MS1)						Source: AAG0387-10 Prepared: 07/18/17 Analyzed: 07/20/17					
Arsenic	0.106	0.0050	0.0005	mg/L	0.10000	0.0011	105	75-125			
Matrix Spike Dup (7070414-MSD1)						Source: AAG0387-10 Prepared: 07/18/17 Analyzed: 07/20/17					
Arsenic	0.104	0.0050	0.0005	mg/L	0.10000	0.0011	103	75-125	2	20	
Post Spike (7070414-PS1)						Source: AAG0387-10 Prepared: 07/18/17 Analyzed: 07/20/17					
Arsenic	104			ug/L	100.00	1.05	102	80-120			



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

July 25, 2017

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per Pace Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

Note: Unless otherwise noted, all results are reported on an as received basis.

CHAIN OF CUSTODY RECORD

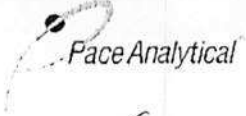


Pace Analytical Services, LLC - Atlanta GA
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: 1 OF 1

CLIENT NAME: <u>Georgia Power Company</u>						ANALYSIS REQUESTED												L A B I D N U M B E R ↓	CONTAINER TYPE		PRESERVATION												
CLIENT ADDRESS/PHONE-NUMBER/FAX NUMBER: <u>241 Ralph McGill Blvd SE B10105 Atlanta, GA 30308</u>						CONTAINER TYPE: <u>P P</u>		PRESERVATION: <u>3 3</u>																									
REPORT TO: <u>Lauren Petty</u> CC: <u>Stephen Wilson</u>						CONTAINERS ↓	# of	EPA 6020 As only	Radium 226 + 228	SW-846 9315 + 9320																							
REQUESTED COMPLETION DATE:																																	
PROJECT NAME/STATE: <u>Plant Kraft CCR</u>																																	
PROJECT #:																																	
Collection DATE	Collection TIME	MATRIX CODE*	C O M P	G R A B	SAMPLE IDENTIFICATION																												
<u>7/13/17</u>	<u>1255</u>	<u>GW</u>		<u>X</u>	<u>KMW-04</u>						<u>3</u>	<u>X</u>	<u>X</u>																				
SAMPLED BY AND TITLE: <u>Forrest Howard</u>											DATE/TIME: <u>7/13/17 1500</u>						RELINQUISHED BY: <u>[Signature]</u>						DATE/TIME: <u>7/13/17 1730</u>						FOR LAB USE ONLY				
RECEIVED BY:											DATE/TIME:						RELINQUISHED BY:						DATE/TIME:						LAB #: <u>AAL0396</u>				
RECEIVED BY LAB: <u>[Signature]</u>											DATE/TIME: <u>7/14/17 0925</u>						SAMPLE SHIPPED VIA: <u>UPS</u>						CLIENT OTHER FS						Entered into LIMS: <u>[Signature]</u>				
Checked: <u>No</u> NA Yes <u>No</u> NA											Temperature: <u>25.8°C</u> Min: Max:						Custody Seal: <u>Intact</u> Broken Not Present N/A						# of Coolers: Cooler ID:						Tracking #: <u>7811 83703123</u>				

Page 7 of 9



Client Name: GA Power

Project # HAG-03916

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 787183703123

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used FR-1

Type of Ice: Red Blue None

Samples on ice, cooling process has begun

Cooler Temperature 25.8°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 2/14/17

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 7/25/2017 1:59:58PM

Attn: Ms. Lauren Petty

Client: Georgia Power

Project: Georgia HSRA Program

Date Received: 07/14/17 09:25

Work Order: AAG0396

Logged In By: Charles Hawks

OBSERVATIONS

#Samples: 1

#Containers: 3

Minimum Temp(C): 25.8

Maximum Temp(C): 25.8

Custody Seal(s) Used: Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	NO
Preservation Confirmed	YES

Comments:

August 04, 2017

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: AAG0396 Plant Kraft
Pace Project No.: 30224383

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AAG0396 Plant Kraft

Pace Project No.: 30224383

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AAG0396 Plant Kraft

Pace Project No.: 30224383

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30224383001	KMW-04	Water	07/13/17 12:55	07/17/17 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AAG0396 Plant Kraft
Pace Project No.: 30224383

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30224383001	KMW-04	EPA 9315	JC2	1
		EPA 9320	VAL	1
		Total Radium Calculation	RMK	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AAG0396 Plant Kraft

Pace Project No.: 30224383

Sample: KMW-04 **Lab ID: 30224383001** Collected: 07/13/17 12:55 Received: 07/17/17 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.371 ± 0.164 (0.177) C:81% T:NA	pCi/L	08/02/17 09:42	13982-63-3	
Radium-228	EPA 9320	0.749 ± 0.398 (0.694) C:80% T:92%	pCi/L	08/02/17 18:10	15262-20-1	
Total Radium	Total Radium Calculation	1.12 ± 0.562 (0.871)	pCi/L	08/04/17 12:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AAG0396 Plant Kraft

Pace Project No.: 30224383

QC Batch: 265653

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30224383001

METHOD BLANK: 1308228

Matrix: Water

Associated Lab Samples: 30224383001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.302 ± 0.274 (0.549) C:82% T:85%	pCi/L	08/02/17 16:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AAG0396 Plant Kraft

Pace Project No.: 30224383

QC Batch: 265657

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 30224383001

METHOD BLANK: 1308239

Matrix: Water

Associated Lab Samples: 30224383001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.254 ± 0.116 (0.177) C:89% T:NA	pCi/L	08/01/17 19:52	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AAG0396 Plant Kraft

Pace Project No.: 30224383

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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WO #: 30224383



Chain of Custody

Results Requested By: 8/8/2017

Owner Received Date:

Workorder Name: Plant Kraft

Workorder: AAG0396

Report To:	Subcontract To:	Requested Analysis
Betsy McDaniel	Pace - Pittsburgh 1638 Roseytown Road Stes. 2,3,4 Greensburg, PA 15601 Phone (724) 850-5600	Radium 226, 228, Total

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Date/Time	Received By	Date/Time	Comments
						CONF	2				
1	KMW-04	G	7/13/2017 12:55	AAG0396-01	GW						
2											
3											
4											
5											
6											
7											
8											
9											
10											

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>[Signature]</i>	7/14/17 0730	<i>[Signature]</i>	7-17-17/0930	
2					
3					

Cooler Temperature on Receipt: N/A °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Friday, June 17, 2016 11:01:34 AM FMT-ALL-C-002rev.00 24March2009 Page 1 of 1

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 78 71 8370 3123

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used FR-1

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 25.8°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 7/14/17

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-ORO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

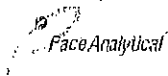
Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Condition Upon Receipt Pittsburgh



Client Name: Pace, GA

Project # 30224383

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking#: 7413 6657 2151

Label	<u>BLM</u>
LIMS Login	<u>BLM</u>

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Date and Initials of person examining contents: AML 7-17-17

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Organic Samples checked for dechlorination:			X	13.
Filtered volume received for Dissolved tests			X	14.
All containers have been checked for preservation.	X			15.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			<u>PHL2</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed: <u>AML</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):			X	16.
Trip Blank Present:		X		17.
Trip Blank Custody Seals Present		X		
Rad Aqueous Samples Screened > 0.5 mrem/hr	X			Initial when completed: <u>AML</u> Date: <u>7-17-17</u>

Client Notification/ Resolution: Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in reports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 7/27/2017
Worklist: 36807
Matrix: DW

Method Blank Assessment

MB Sample ID: 1308239
MB concentration: 0.254
M/B Counting Uncertainty: 0.110
MB MDC: 0.177
MB Numerical Performance Indicator: 4.54
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: See Comment*

Laboratory Control Sample Assessment

LCSID (Y or N)?	N
LCS36807	LCS036807
Count Date: 8/2/2017	
Spike I.D.: 17-030	
Spike Concentration (pCi/mL): 80.197	
Volume Used (mL): 0.10	
Aliquot Volume (L, g, F): 0.515	
Target Conc. (pCi/L, g, F): 15.579	
Uncertainty (Calculated): 1.435	
Result (pCi/L, g, F): 13.665	
LCS/LCSD Counting Uncertainty (pCi/L, g, F): 0.836	
Numerical Performance Indicator: -2.26	
Percent Recovery: 87.72%	
Status vs Numerical Indicator: N/A	
Status vs Recovery: Pass	

Duplicate Sample Assessment

Sample I.D.: 30224382005
Duplicate Sample I.D.: 30224382005DUP

Sample Result Counting Uncertainty (pCi/L, g, F): 0.322
Sample Duplicate Result (pCi/L, g, F): 0.134
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 0.152
Are sample and/or duplicate results below MDC? See Below**

Duplicate Numerical Performance Indicator: 1.842
Duplicate RPD: ~~21.88%~~

Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Fail***

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

***Batch must be re-assessed due to unacceptable precision.

See acceptable for all matrices

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:

MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):

Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 7/26/2017
Worklist: 36803
Matrix: DW

Method Blank Assessment	
MB Sample ID	1308228
MB concentration:	0.302
MB Counting Uncertainty:	0.268
MB MDC:	0.549
MB Numerical Performance Indicator:	2.21
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		N
LCS36803		LCS36803
Count Date:	8/2/2017	
Spike I.D.:	17-005	
Spike Concentration (pCi/mL):	23.802	
Volume Used (mL):	0.20	
Aliquot Volume (L, g, F):	0.820	
Target Conc. (pCi/L, g, F):	5.833	
Uncertainty (Calculated):	0.420	
Result (pCi/L, g, F):	6.019	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.700	
Numerical Performance Indicator:	0.45	
Percent Recovery:	103.19%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	

Duplicate Sample Assessment	
Sample I.D.:	30224382005
Duplicate Sample I.D.:	30224382005DUP
Sample Result (pCi/L, g, F):	0.296
Sample Result Counting Uncertainty (pCi/L, g, F):	0.346
Sample Duplicate Result (pCi/L, g, F):	0.756
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.446
Are sample and/or duplicate results below MDC?	See Below##
Duplicate Numerical Performance Indicator:	61.599
Duplicate RPD:	62-57%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Batch must be re-prepped due to unacceptable precision.

DW 8/4/17

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

CZ acceptable for all matrices

August 24, 2017

Ms. Lauren Petty
GA Power
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: AAH0231 Plant Kraft
Pace Project No.: 30226552

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AAH0231 Plant Kraft

Pace Project No.: 30226552

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AAH0231 Plant Kraft
Pace Project No.: 30226552

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30226552001	KMW-08	Water	08/04/17 10:52	08/08/17 10:00
30226552002	KMW-10	Water	08/04/17 11:40	08/08/17 10:00
30226552003	KMW-11	Water	08/04/17 13:15	08/08/17 10:00
30226552004	KMW-12	Water	08/04/17 12:41	08/08/17 10:00
30226552005	KMW-15AR	Water	08/04/17 11:04	08/08/17 10:00
30226552006	Dup-01	Water	08/04/17 00:00	08/08/17 10:00
30226552007	EQBL080417	Water	08/04/17 09:15	08/08/17 10:00
30226552008	FBL080417	Water	08/04/17 09:10	08/08/17 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AAH0231 Plant Kraft

Pace Project No.: 30226552

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30226552001	KMW-08	EPA 9315	JC2	1
		EPA 9320	VAL	1
		Total Radium Calculation	CMC	1
30226552002	KMW-10	EPA 9315	JC2	1
		EPA 9320	VAL	1
		Total Radium Calculation	CMC	1
30226552003	KMW-11	EPA 9315	JC2	1
		EPA 9320	VAL	1
		Total Radium Calculation	CMC	1
30226552004	KMW-12	EPA 9315	JC2	1
		EPA 9320	VAL	1
		Total Radium Calculation	CMC	1
30226552005	KMW-15AR	EPA 9315	JC2	1
		EPA 9320	VAL	1
		Total Radium Calculation	CMC	1
30226552006	Dup-01	EPA 9315	JC2	1
		EPA 9320	VAL	1
		Total Radium Calculation	CMC	1
30226552007	EQBL080417	EPA 9315	JC2	1
		EPA 9320	VAL	1
		Total Radium Calculation	CMC	1
30226552008	FBL080417	EPA 9315	JC2	1
		EPA 9320	VAL	1
		Total Radium Calculation	CMC	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AAH0231 Plant Kraft

Pace Project No.: 30226552

Sample: KMW-08		Lab ID: 30226552001	Collected: 08/04/17 10:52	Received: 08/08/17 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.616 ± 0.265 (0.327) C:85% T:NA	pCi/L	08/14/17 08:18	13982-63-3	
Radium-228	EPA 9320	0.165 ± 0.312 (0.685) C:77% T:88%	pCi/L	08/16/17 15:51	15262-20-1	
Total Radium	Total Radium Calculation	0.781 ± 0.577 (1.01)	pCi/L	08/23/17 12:07	7440-14-4	

Sample: KMW-10		Lab ID: 30226552002	Collected: 08/04/17 11:40	Received: 08/08/17 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.867 ± 0.291 (0.225) C:93% T:NA	pCi/L	08/14/17 08:18	13982-63-3	
Radium-228	EPA 9320	0.691 ± 0.456 (0.873) C:78% T:71%	pCi/L	08/16/17 15:13	15262-20-1	
Total Radium	Total Radium Calculation	1.56 ± 0.747 (1.10)	pCi/L	08/23/17 12:07	7440-14-4	

Sample: KMW-11		Lab ID: 30226552003	Collected: 08/04/17 13:15	Received: 08/08/17 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.40 ± 0.373 (0.233) C:93% T:NA	pCi/L	08/14/17 08:19	13982-63-3	
Radium-228	EPA 9320	0.343 ± 0.351 (0.725) C:72% T:84%	pCi/L	08/16/17 15:13	15262-20-1	
Total Radium	Total Radium Calculation	1.74 ± 0.724 (0.958)	pCi/L	08/23/17 12:07	7440-14-4	

Sample: KMW-12		Lab ID: 30226552004	Collected: 08/04/17 12:41	Received: 08/08/17 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	3.47 ± 0.685 (0.233) C:99% T:NA	pCi/L	08/14/17 08:19	13982-63-3	
Radium-228	EPA 9320	1.00 ± 0.427 (0.699) C:78% T:89%	pCi/L	08/16/17 15:13	15262-20-1	
Total Radium	Total Radium Calculation	4.47 ± 1.11 (0.932)	pCi/L	08/23/17 12:07	7440-14-4	

Sample: KMW-15AR		Lab ID: 30226552005	Collected: 08/04/17 11:04	Received: 08/08/17 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.47 ± 0.393 (0.325) C:102% T:NA	pCi/L	08/14/17 08:19	13982-63-3	
Radium-228	EPA 9320	0.618 ± 0.384 (0.721) C:78% T:84%	pCi/L	08/16/17 15:13	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AAH0231 Plant Kraft
Pace Project No.: 30226552

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Total Radium	Total Radium Calculation	2.09 ± 0.777 (1.05)	pCi/L	08/23/17 12:07	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.586 ± 0.227 (0.251) C:96% T:NA	pCi/L	08/14/17 08:19	13982-63-3	
Radium-228	EPA 9320	1.08 ± 0.461 (0.736) C:77% T:76%	pCi/L	08/16/17 15:13	15262-20-1	
Total Radium	Total Radium Calculation	1.67 ± 0.688 (0.987)	pCi/L	08/23/17 12:07	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.0661 ± 0.128 (0.295) C:93% T:NA	pCi/L	08/14/17 08:19	13982-63-3	
Radium-228	EPA 9320	0.119 ± 0.342 (0.767) C:81% T:77%	pCi/L	08/16/17 15:13	15262-20-1	
Total Radium	Total Radium Calculation	0.185 ± 0.470 (1.06)	pCi/L	08/23/17 12:07	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.199 ± 0.145 (0.245) C:96% T:NA	pCi/L	08/14/17 08:20	13982-63-3	
Radium-228	EPA 9320	0.411 ± 0.360 (0.725) C:75% T:81%	pCi/L	08/16/17 15:13	15262-20-1	
Total Radium	Total Radium Calculation	0.610 ± 0.505 (0.970)	pCi/L	08/23/17 12:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AAH0231 Plant Kraft

Pace Project No.: 30226552

QC Batch:	267774	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
Associated Lab Samples:	30226552001, 30226552002, 30226552003, 30226552004, 30226552005, 30226552006, 30226552007, 30226552008		

METHOD BLANK:	1317975	Matrix:	Water
Associated Lab Samples:	30226552001, 30226552002, 30226552003, 30226552004, 30226552005, 30226552006, 30226552007, 30226552008		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.145 ± 0.117 (0.187) C:96% T:NA	pCi/L	08/14/17 08:16	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AAH0231 Plant Kraft

Pace Project No.: 30226552

QC Batch:	267775	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	30226552001, 30226552002, 30226552003, 30226552004, 30226552005, 30226552006, 30226552007, 30226552008		

METHOD BLANK:	1317976	Matrix:	Water
Associated Lab Samples:	30226552001, 30226552002, 30226552003, 30226552004, 30226552005, 30226552006, 30226552007, 30226552008		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.108 ± 0.323 (0.774) C:77% T:81%	pCi/L	08/16/17 15:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AAH0231 Plant Kraft

Pace Project No.: 30226552

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Chain of Custody



Workorder: AAH0231
 Results Requested By: 8/30/2017

Owner Received Date:

Workorder Name: Plant Kraft

Report To:	Subcontract To:	Requested Analysis									
Betsy McDaniel Pace Analytical Atlanta 110 Technology Parkway Peachtree Corners, GA 30092 Phone (770)-734-4200	Pace - Pittsburgh 1638 Roseytown Road Stes. 2,3,4 Greensburg, PA 15601 Phone (724) 850-5600	WO#: 30226552 									
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	NO3	HNO3	Radium 226, 228, Total	LAB USE ONLY	Comments
1	KMW-08	G	8/4/2017 10:52	AAH0231-01	GW	2			X	001	
2	KMW-10	G	8/4/2017 11:40	AAH0231-03	GW	4			X	002	
3	KMW-11	G	8/4/2017 13:15	AAH0231-04	GW	2			X	003	
4	KMW-12	G	8/4/2017 12:41	AAH0231-05	GW	2			X	004	
5	MW-15AR	G	8/4/2017 11:04	AAH0231-06	GW	2			X	005	
6	Dup-01	G	8/4/2017 0:00	AAH0231-07	GW	2			X	006	
7	EQBL080417	G	8/4/2017 9:15	AAH0231-08	W	2			X	007	
8	FBL080417	G	8/4/2017 9:10	AAH0231-09	W	2			X	008	
9											
10											
Transfers	Released By	Date/Time	Received By	Date/Time	Comments						
1	<i>Charles Hawk</i>	8/7/17 17:30	<i>C. Conway</i>	8/17/17 10:00	Sample AAH0231-02 does not get Rads analysis						
2											
3											

Cooler Temperature on Receipt 14 °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC
 This chain of custody is considered complete as is since this information is available in the owner laboratory.



CHAIN OF CUSTODY RECORD

Pace Analytical Services, LLC - Atlanta GA
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

CLIENT NAME: GEORGINA POWER COMPANY CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 RALPH MCGILL BLVD SE 30185 ATLANTA, GA 30308 REPORT TO: LEA MILLET CC: STEPHEN WILSON/RES/UTILITY REQUESTED COMPLETION DATE: _____ PROJECT NAME/STATE: GFC PLANT KRAFT PROJECT #: _____		ANALYSIS REQUESTED F 3 P 3 EPA 6020 ARSENIC RANVM 26 R 228 SW 846, 936, 9320		CONTAINER TYPE: _____ PRESERVATION: _____ # of CONTAINERS: 3		ANALYSIS REQUESTED F 3 P 3 EPA 6020 ARSENIC RANVM 26 R 228 SW 846, 936, 9320		CONTAINER TYPE: _____ PRESERVATION: _____ # of CONTAINERS: 3	
Collection DATE	Collection TIME	MATRIX CODE	GRAB	COMB	SAMPLE IDENTIFICATION	RELINQUISHED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:
08/24/17	1052	GW	X		KMW-08	[Signature]	08/24/17	[Signature]	08/24/17
08/23/17	1555	GW	X		KMW-09	[Signature]	08/23/17	[Signature]	08/23/17
08/24/17	1140	GW	X		KMW-10	[Signature]	08/24/17	[Signature]	08/24/17
08/24/17	1315	GW	X		KMW-11	[Signature]	08/24/17	[Signature]	08/24/17
08/24/17	1241	GW	X		KMW-12	[Signature]	08/24/17	[Signature]	08/24/17
08/24/17	1104	GW	X		KMW-15A(R)	[Signature]	08/24/17	[Signature]	08/24/17
08/24/17		GW	X		DUP-01	[Signature]	08/24/17	[Signature]	08/24/17
08/24/17	0915	W	X		EQBL-082417	[Signature]	08/24/17	[Signature]	08/24/17
08/24/17	0910	W	X		FBL-082417	[Signature]	08/24/17	[Signature]	08/24/17
SAMPLED BY AND TITLE: ROBERT MULL NICHOLE FETWICK, PROJECT MANAGER RECEIVED BY: _____ DATE/TIME: _____ RECEIVED BY LAB: [Signature] DATE/TIME: 08/24/17 09:30 Lab # 787412583381 MA [Signature] NA [Signature]									

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project # AAH0231

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 7874 1258338

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used IR-4 Type of Ice: Wet Blue (None) Samples on ice, cooling process has begun

Cooler Temperature 22.4 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments:

Date and Initials of person examining contents: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	30226552
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>GW</u>			
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Field Data Required? Y / N

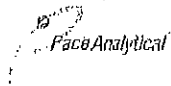
Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Condition Upon Receipt Pittsburgh

30226552



Client Name: Pace GA

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 7473657700

Label	<u>AM</u>
LIMS Login	<u>AM</u>

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used NA Type of Ice: Wet Blue None

Cooler Temperature Observed Temp NA °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and initials of person examining contents: CA 8/8/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):	/			7. <u>COC 8/8/17</u>
Rush Turn Around Time Requested:	/			8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Organic Samples checked for dechlorination:			/	13.
Filtered volume received for Dissolved tests			/	14.
All containers have been checked for preservation.	/			15. <u>pH 2.2</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	/			
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed: <u>CA</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):			/	16.
Trip Blank Present:		/		17.
Trip Blank Custody Seals Present		/		
Rad Aqueous Samples Screened > 0.5 mrem/hr		/		Initial when completed: <u>CA</u> Date: <u>8/8/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 8/11/2017
Worklist: 37124
Matrix: DW

Method Blank Assessment	
MB Sample ID	1317976
MB concentration:	-0.108
M/B Counting Uncertainty:	0.322
MB MDC:	0.774
MB Numerical Performance Indicator:	-0.66
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	8/16/2017
Spike I.D.:	17-005
Spike Concentration (pCi/mL):	23.792
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.803
Target Conc. (pCi/L, g, F):	5.929
Uncertainty (Calculated):	0.427
Result (pCi/L, g, F):	6.626
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.754
Numerical Performance Indicator:	1.58
Percent Recovery:	111.76%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample I.D.:	30226434002
Duplicate Sample I.D.:	30226434002DUP
Sample Result (pCi/L, g, F):	2.219
Sample Result Counting Uncertainty (pCi/L, g, F):	0.509
Sample Duplicate Result (pCi/L, g, F):	2.137
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.493
Are sample and/or duplicate results below MDC?	See Below ##
Duplicate Numerical Performance Indicator:	0.228
Duplicate RPD:	3.79%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

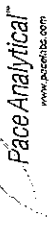
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 8/11/2017
Worklist: 37123
Matrix: DW

Method Blank Assessment

MB Sample ID: 1317975
MB Concentration: 0.145
MB Counting Uncertainty: 0.115
MB MDC: 0.187
MB Numerical Performance Indicator: 2.47
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

LCS (Y or N)? N
LCS37123 LCS37123
Count Date: 8/14/2017
Spike I.D.: 17-030
Spike Concentration (pCi/mL): 80.196
Volume Used (mL): 0.10
Aliquot Volume (L, g, F): 0.504
Target Conc. (pCi/L, g, F): 15.915
Uncertainty (Calculated): 1.466
Result (pCi/L, g, F): 13.872
LCS/LCSD Counting Uncertainty (pCi/L, g, F): 0.967
Numerical Performance Indicator: -2.28
Percent Recovery: 87.16%
Status vs Numerical Indicator: N/A
Status vs Recovery: Pass

Duplicate Sample Assessment

Sample I.D.: 30225850001
Duplicate Sample I.D.: 30225850001DUP
Sample Result (pCi/L, g, F): 0.289
Sample Result Counting Uncertainty (pCi/L, g, F): 0.185
Sample Duplicate Result (pCi/L, g, F): 0.493
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.219
Ave sample and/or duplicate results below MDC? **See Below #**
Duplicate Numerical Performance Indicator: -1.391
Duplicate RPD: 51.99%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Fail***

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

*** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Inspector

***Batch must be re-prepped due to unacceptable precision.

September 12, 2017

Mr. Joju Abraham
Georgia Power
2480 Maner Road
Atlanta, GA 30339

RE: Project: AAH0560 Plant Kraft
Pace Project No.: 30227599

Dear Mr. Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 18, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AAH0560 Plant Kraft
Pace Project No.: 30227599

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AAH0560 Plant Kraft

Pace Project No.: 30227599

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30227599001	KMW-05	Water	08/15/17 11:30	08/18/17 10:00
30227599002	KMW-06	Water	08/15/17 14:12	08/18/17 10:00
30227599003	KMW-07	Water	08/15/17 15:50	08/18/17 10:00
30227599004	Dup-01	Water	08/15/17 00:00	08/18/17 10:00
30227599005	KMW-01	Water	08/16/17 09:58	08/18/17 10:00
30227599006	EQBL081617	Water	08/16/17 11:40	08/18/17 10:00

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SAMPLE ANALYTE COUNT

Project: AAH0560 Plant Kraft

Pace Project No.: 30227599

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30227599001	KMW-05	EPA 9315	JC2	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30227599002	KMW-06	EPA 9315	JC2	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30227599003	KMW-07	EPA 9315	JC2	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30227599004	Dup-01	EPA 9315	JC2	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30227599005	KMW-01	EPA 9315	JC2	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30227599006	EQBL081617	EPA 9315	JC2	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AAH0560 Plant Kraft

Pace Project No.: 30227599

Sample: KMW-05		Lab ID: 30227599001	Collected: 08/15/17 11:30	Received: 08/18/17 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.26 ± 0.324 (0.151)		pCi/L	09/05/17 07:36	13982-63-3	
		C:94% T:NA					
Radium-228	EPA 9320	5.83 ± 1.31 (0.824)		pCi/L	09/07/17 15:15	15262-20-1	
		C:73% T:69%					
Total Radium	Total Radium Calculation	7.09 ± 1.63 (0.975)		pCi/L	09/10/17 12:55	7440-14-4	

Sample: KMW-06		Lab ID: 30227599002	Collected: 08/15/17 14:12	Received: 08/18/17 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.19 ± 0.480 (0.170)		pCi/L	09/05/17 07:36	13982-63-3	
		C:90% T:NA					
Radium-228	EPA 9320	7.25 ± 1.60 (0.979)		pCi/L	09/07/17 15:15	15262-20-1	
		C:61% T:73%					
Total Radium	Total Radium Calculation	9.44 ± 2.08 (1.15)		pCi/L	09/10/17 12:55	7440-14-4	

Sample: KMW-07		Lab ID: 30227599003	Collected: 08/15/17 15:50	Received: 08/18/17 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.42 ± 0.521 (0.207)		pCi/L	09/05/17 07:36	13982-63-3	
		C:90% T:NA					
Radium-228	EPA 9320	7.99 ± 1.69 (0.871)		pCi/L	09/07/17 15:15	15262-20-1	
		C:69% T:73%					
Total Radium	Total Radium Calculation	10.4 ± 2.21 (1.08)		pCi/L	09/10/17 12:55	7440-14-4	

Sample: Dup-01		Lab ID: 30227599004	Collected: 08/15/17 00:00	Received: 08/18/17 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.58 ± 0.379 (0.161)		pCi/L	09/05/17 07:36	13982-63-3	
		C:96% T:NA					
Radium-228	EPA 9320	7.97 ± 1.68 (0.852)		pCi/L	09/07/17 15:15	15262-20-1	
		C:64% T:80%					
Total Radium	Total Radium Calculation	9.55 ± 2.06 (1.01)		pCi/L	09/10/17 12:55	7440-14-4	

Sample: KMW-01		Lab ID: 30227599005	Collected: 08/16/17 09:58	Received: 08/18/17 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.51 ± 0.376 (0.215)		pCi/L	09/05/17 07:36	13982-63-3	
		C:90% T:NA					
Radium-228	EPA 9320	11.4 ± 2.30 (0.809)		pCi/L	09/07/17 15:15	15262-20-1	
		C:69% T:71%					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AAH0560 Plant Kraft

Pace Project No.: 30227599

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Total Radium	Total Radium Calculation	12.9 ± 2.68 (1.02)	pCi/L	09/10/17 12:55	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.363 ± 0.196 (0.283) C:74% T:NA	pCi/L	09/05/17 07:36	13982-63-3	
Radium-228	EPA 9320	0.438 ± 0.419 (0.848) C:65% T:71%	pCi/L	09/07/17 15:15	15262-20-1	
Total Radium	Total Radium Calculation	0.801 ± 0.615 (1.13)	pCi/L	09/10/17 12:55	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AAH0560 Plant Kraft

Pace Project No.: 30227599

QC Batch: 270015

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 30227599001, 30227599002, 30227599003, 30227599004, 30227599005, 30227599006

METHOD BLANK: 1328717

Matrix: Water

Associated Lab Samples: 30227599001, 30227599002, 30227599003, 30227599004, 30227599005, 30227599006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.268 ± 0.139 (0.154) C:96% T:NA	pCi/L	09/05/17 07:36	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AAH0560 Plant Kraft

Pace Project No.: 30227599

QC Batch: 270013

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30227599001, 30227599002, 30227599003, 30227599004, 30227599005, 30227599006

METHOD BLANK: 1328715

Matrix: Water

Associated Lab Samples: 30227599001, 30227599002, 30227599003, 30227599004, 30227599005, 30227599006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0454 ± 0.342 (0.809) C:75% T:79%	pCi/L	09/07/17 15:15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AAH0560 Plant Kraft
Pace Project No.: 30227599

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Chain of Custody



Workorder: AAH0560 Worker Name: Plant Kraft Owner Received Date: 8/17/2017 Results Requested By: Standard
 Report To: Betsy McDaniel Subcontract To: Pace Analytical Pittsburg

Pace Analytical Atlanta 1637 Roseytown Road
 110 Technology Parkway Suite 2, 3, 4
 Peachtree Corners, GA 30092 Greensburg, PA 15601
 Phone (770)-734-4200 Phone (724) 850-5600

WO#: 30227599



Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		LAB USE ONLY	
						NO.	NO.		
1	KMW-05	GRAB	8/15/2017 1130	AAH0560-01	GW	2	0	X	001
2	KMW-06	GRAB	8/15/2017 1412	AAH0560-02	GW	2	0	X	002
3	KMW-07	GRAB	8/15/2017 1550	AAH0560-03	GW	2	0	X	003
4	Dup-01	GRAB	8/15/2017 0000	AAH0560-04	GW	2	0	X	004
5	KMW-01	GRAB	8/16/2017 0958	AAH0560-05	GW	2	0	X	005
6	EQBL081617	GRAB	8/16/2017 1140	AAH0560-06	W	2	0	X	006
7									
8									
9									
10									
Transfers Released By: M. RAHMAN						Date/Time: 8/17/17		Received By: SA	
Cooler Temperature on Receipt: N/A °C						Custody Seal: Y or N		Received on Ice: Y or N	
Sample Intact: Y or N						Comments: Radium 226, 228, Total			

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

CHAIN OF CUSTODY RECORD



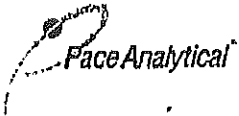
Pace Analytical Services, LLC - Atlanta GA
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: 1 OF 1

CLIENT NAME:				ANALYSIS REQUESTED										CONTAINER TYPE		PRESERVATION	
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B16185 Atlanta GA 30308				CONTAINER TYPE: P PRESERVATION: 3										P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER		1 - HCl, ≤5°C 2 - H ₂ SO ₄ , ≤5°C 3 - HNO ₃ 4 - NaOH, ≤5°C 5 - NaOH/ZnAc, ≤5°C 6 - Na ₂ S ₂ O ₃ , ≤5°C 7 - ≤5°C not frozen	
REPORT TO:		OO: Trent Boehm Stephan Willson		# of CONTAINERS Reaction 20161228B SW-846 9315 89520										*MATRIX CODES: DW - DRINKING WATER S - SOIL WW - WASTEWATER SL - SLUDGE GW - GROUNDWATER SD - SOLD SW - SURFACE WATER A - AIR ST - STORM WATER L - LIQUID W - WATER P - PRODUCT			
REQUESTED COMPLETION DATE:		PO#:															
PROJECT NAME/STATE:				PROJECT #: Plant Kraft										REMARKS/ADDITIONAL INFORMATION 30227599 -			
PROJECT #:																	
Collection DATE	Collection TIME	MATRIX CODE*	G O M P	G R A B	SAMPLE IDENTIFICATION	#											
8/15/17	1130	GW	X	X	KMW-05	2											
8/15/17	1412	GW	X	X	KMW-06	2											
8/15/17	1550	GW	X	X	KMW-07	2											
8/15/17	/	GW		X	Dup-01	2											
8/16/17	0958	GW		X	KMW-01	2											
8/16/17	1140	OW		X	EQBLOC,1617	2											

30227599

Sample Condition Upon Receipt



Client Name: GTA Powere

Project # KAH0560

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 7700 2629 3465

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used IR-4 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 27.2 Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/17/17 MR

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>GTA</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: _____ Date/Time: _____ Field Data Required? Y / N

Person Contacted: _____

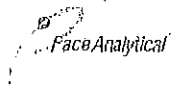
Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Condition Upon Receipt Pittsburgh

30227599



Client Name: PACE, GA

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 741366579498

Label	<u>AM</u>
LIMS Login	<u>AM</u>

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Date and Initials of person examining contents: ZH 8/18/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analytcs (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14.
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>PH-2</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed: <u>ZH</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Rad Aqueous Samples Screened > 0.5 mrem/hr	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>ZH</u> Date: <u>8/18/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyt Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 9/1/2017
Worklist: 37503
Matrix: DW

Method Blank Assessment	
MB Sample ID	1328717
MB Concentration:	0.268
M/B Counting Uncertainty:	0.133
MB MDC:	0.154
MB Numerical Performance Indicator:	3.95
MB Status vs. Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		LCSID (Y or N)?	Y
Count Date:	9/5/2017	LCS37503	
Spike I.D.:	17-030	9/5/2017	
Spike Concentration (pCi/mL):	80.193	17-030	
Volume Used (mL):	0.10	80.193	
Aliquot Volume (L, g, F):	0.506	0.10	
Target Conc. (pCi/L, g, F):	15.837	15.859	
Uncertainty (Calculated):	1.461	14.005	
Result (pCi/L, g, F):	13.064	0.884	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.854	-2.13	
Numerical Performance Indicator:	-3.22	88.31%	
Percent Recovery:	82.49%	N/A	
Status vs Numerical Indicator:	N/A	Pass	
Status vs Recovery:	Pass		

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS37503	
Duplicate Sample I.D.:	LCS37503	
Sample Result (pCi/L, g, F):	13.064	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.854	
Sample Duplicate Result (pCi/L, g, F):	14.005	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.884	
Are sample and/or duplicate results below MDC?	NO	
Duplicate Numerical Performance Indicator:	-1.501	
Duplicate RPD:	6.96%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment	
Sample Collection Date:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike Volume Used in MS (mL):
Spike Volume Used in MS (mL):	MS Aliquot (L, g, F):
MS Aliquot (L, g, F):	MSD Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):	MSD Target Conc. (pCi/L, g, F):
MSD Target Conc. (pCi/L, g, F):	Spike uncertainty (calculated):
Sample Result:	Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	MS Numerical Performance Indicator:
MS Numerical Performance Indicator:	MSD Numerical Performance Indicator:
MS Percent Recovery:	MS Percent Recovery:
MS Status vs Numerical Indicator:	MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:	MS Status vs Recovery:
MS Status vs Recovery:	MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:	Duplicate Numerical Performance Indicator:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	MS/MSD Duplicate RPD:
Duplicate Numerical Performance Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs RPD:

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: JLW
Date: 9/5/2017
Worklist: 37502
Matrix: DW

Method Blank Assessment	
MB Sample ID	1328715
MB concentration:	-0.045
M/B Counting Uncertainty:	0.342
MB MDC:	0.809
MB Numerical Performance Indicator:	-0.26
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		Y
LCS37502		LCSD37502
Count Date:	9/7/2017	9/7/2017
Spike I.D.:	17-005	17-005
Spike Concentration (pCi/mL):	23.620	23.620
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.807	0.805
Target Conc. (pCi/L, g, F):	5.854	5.866
Uncertainty (Calculated):	0.421	0.422
Result (pCi/L, g, F):	6.476	7.838
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.753	0.793
Numerical Performance Indicator:	1.41	4.30
Percent Recovery:	110.63%	133.62%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment	
Sample I.D.:	LCS37502
Duplicate Sample I.D.:	LCSD37502
Sample Result (pCi/L, g, F):	6.476
Sample Duplicate Result (pCi/L, g, F):	0.753
Sample Result Counting Uncertainty (pCi/L, g, F):	7.838
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.793
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-2.441
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	18.63%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

Georgia Power

42 Inverness Center Parkway

Birmingham, AL 35242

Attention: Ms. Lauren Petty

Report Number: AAH0231

August 15, 2017

Project: Georgia HSRA Program

Project #:Plant Kraft

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:

A handwritten signature in black ink, appearing to read "Betsy McDaniel", written over a horizontal line.

Project Manager

This report may not be reproduced, except in full, without written approval from Pace Analytical Services, LLC.
All test results relate only to the samples analyzed.



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
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Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

August 15, 2017

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KMW-08	AAH0231-01	Ground Water	08/04/17 10:52	08/05/17 09:30
KMW-09	AAH0231-02	Ground Water	08/03/17 15:55	08/05/17 09:30
KMW-10	AAH0231-03	Ground Water	08/04/17 11:40	08/05/17 09:30
DUP-01	AAH0231-07	Ground Water	08/04/17 00:00	08/05/17 09:30
EQBL080417	AAH0231-08	Water	08/04/17 09:15	08/05/17 09:30
FBL080417	AAH0231-09	Water	08/04/17 09:10	08/05/17 09:30



PACE ANALYTICAL SERVICES, LLC.

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Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

August 15, 2017

Case Narrative

The Radium analysis by methods EPA 9315/9320 was performed by Pace-Pittsburgh, 1638 Roseytown Road - Suites 2, 3, 4, Greensburg PA 15601. The Pace-Pittsburgh lab contact is Jacquelyn Collins at 724-850-5612.



PACE ANALYTICAL SERVICES, LLC.

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110 Technology Parkway, Peachtree Corners, GA 30092
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Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

August 15, 2017

Report No.: AAH0231

Project: Georgia HSRA Program

Client ID: KMW-08

Lab Number ID: AAH0231-01

Date/Time Sampled: 8/4/2017 10:52:00AM

Date/Time Received: 8/5/2017 9:30:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Metals, Total											
Arsenic	0.0008	0.0050	0.0005	mg/L	EPA 6020B	J	1	08/11/17 13:05	08/14/17 15:09	7080271	CSW



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Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

August 15, 2017

Report No.: AAH0231

Project: Georgia HSRA Program

Client ID: KMW-09

Lab Number ID: AAH0231-02

Date/Time Sampled: 8/3/2017 3:55:00PM

Date/Time Received: 8/5/2017 9:30:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Metals, Total											
Arsenic	0.0009	0.0050	0.0005	mg/L	EPA 6020B	J	1	08/11/17 13:05	08/14/17 15:14	7080271	CSW



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Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

August 15, 2017

Report No.: AAH0231

Project: Georgia HSRA Program

Client ID: KMW-10

Lab Number ID: AAH0231-03

Date/Time Sampled: 8/4/2017 11:40:00AM

Date/Time Received: 8/5/2017 9:30:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Metals, Total											
Arsenic	0.0011	0.0050	0.0005	mg/L	EPA 6020B	J	1	08/11/17 13:05	08/14/17 15:20	7080271	CSW



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Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

August 15, 2017

Report No.: AAH0231

Project: Georgia HSRA Program

Client ID: DUP-01

Lab Number ID: AAH0231-07

Date/Time Sampled: 8/4/2017 12:00:00AM

Date/Time Received: 8/5/2017 9:30:00AM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Metals, Total											
Arsenic	0.0011	0.0050	0.0005	mg/L	EPA 6020B	J	1	08/11/17 13:05	08/14/17 15:26	7080271	CSW



PACE ANALYTICAL SERVICES, LLC.

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Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

August 15, 2017

Attention: Ms. Lauren Petty

Report No.: AAH0231

Project: Georgia HSRA Program

Client ID: EQBL080417

Lab Number ID: AAH0231-08

Date/Time Sampled: 8/4/2017 9:15:00AM

Date/Time Received: 8/5/2017 9:30:00AM

Matrix: Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Metals, Total											
Arsenic	ND	0.0050	0.0005	mg/L	EPA 6020B		1	08/11/17 13:05	08/14/17 15:32	7080271	CSW



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

August 15, 2017

Report No.: AAH0231

Project: Georgia HSRA Program

Client ID: FBL080417

Lab Number ID: AAH0231-09

Date/Time Sampled: 8/4/2017 9:10:00AM

Date/Time Received: 8/5/2017 9:30:00AM

Matrix: Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
Metals, Total											
Arsenic	ND	0.0050	0.0005	mg/L	EPA 6020B		1	08/11/17 13:05	08/14/17 16:06	7080271	CSW



PACE ANALYTICAL SERVICES, LLC.

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 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 42 Inverness Center Parkway
 Birmingham AL, 35242

Attention: Ms. Lauren Petty

August 15, 2017

Report No.: AAH0231

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080271 - EPA 3005A											
Blank (7080271-BLK1)						Prepared: 08/11/17 Analyzed: 08/14/17					
Arsenic	ND	0.0050	0.0005	mg/L							
LCS (7080271-BS1)						Prepared: 08/11/17 Analyzed: 08/14/17					
Arsenic	0.0991	0.0050	0.0005	mg/L	0.10000		99	80-120			
Matrix Spike (7080271-MS1)						Source: AAH0231-02 Prepared: 08/11/17 Analyzed: 08/14/17					
Arsenic	0.101	0.0050	0.0005	mg/L	0.10000	0.0009	100	75-125			
Matrix Spike Dup (7080271-MSD1)						Source: AAH0231-02 Prepared: 08/11/17 Analyzed: 08/14/17					
Arsenic	0.0993	0.0050	0.0005	mg/L	0.10000	0.0009	98	75-125	2	20	
Post Spike (7080271-PS1)						Source: AAH0231-02 Prepared: 08/11/17 Analyzed: 08/14/17					
Arsenic	98.8			ug/L	100.00	0.934	98	80-120			



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Georgia Power
42 Inverness Center Parkway
Birmingham AL, 35242

Attention: Ms. Lauren Petty

August 15, 2017

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per Pace Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

Note: Unless otherwise noted, all results are reported on an as received basis.



CHAIN OF CUSTODY RECORD

Pace Analytical Services, LLC - Atlanta GA
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: 1 OF 1

CLIENT NAME: **GEORGIA POWER COMPANY**
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 RALPH MCGILL BLVD SE B10185
ATLANTA, GA 30308
 REPORT TO: **LEA MILLET**
 CC: **STEPHEN WILSON**
 REQUESTED COMPLETION DATE: **08/04/17**

PROJECT NAME/STATE: **GPC PLANT KRAFT**
 PROJECT #:

Collection DATE	Collection TIME	MATRIX CODE*	COMPA	GRA B	SAMPLE IDENTIFICATION
08/04/17	1052	GW	X	X	KMW-08
08/04/17	1555	GW	X	X	KMW-09
08/04/17	1140	GW	X	X	KMW-10
08/04/17	1315	GW	X	X	KMW-11
08/04/17	1241	GW	X	X	KMW-12
08/04/17	1104	GW	X	X	MW-15A(R)
08/04/17	-	GW	X	X	DUP-01
08/04/17	0915	W	X	X	EQBL-080417
08/04/17	0910	W	X	X	FBL-080417

SAMPLED BY AND TITLE: **ROBERT MULL**
MICHAEL PATINKIN, ROBERT HOWARD
 RECEIVED BY:

DATE/TIME: **08/04/17 1515**
 DATE/TIME:

RECEIVED BY LAB: **Hale**
 No. **NA** Yes **NA** NA
 Date: **08/15/17** Time: **0930**
 Temperature: **24** Min. **24** Max.

CONTAINER TYPE	ANALYSIS REQUESTED	CONTAINER TYPE	PRESERVATION
P - PLASTIC	F P	P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	3 3	A - AMBER GLASS	2 - H ₂ SO ₄ , ≤6°C
G - CLEAR GLASS	3 3	G - CLEAR GLASS	3 - HNO ₃
V - VOA VIAL		V - VOA VIAL	4 - NaOH, ≤6°C
S - STERILE		S - STERILE	5 - NaOH/ZnAc, ≤6°C
O - OTHER		O - OTHER	6 - Na ₂ S ₂ O ₃ , ≤6°C
			7 - ≤6°C not frozen

L A B I D N U M B E R	ANALYSIS REQUESTED	CONTAINER TYPE	PRESERVATION	REMARKS/ADDITIONAL INFORMATION
1	ARSENIC EPA 6020 RAWM 226 & 228 SW 846, 935, 9320	P - PLASTIC	1 - HCl, ≤6°C	2 COOLERS
2				
3				
4				
5				
6				
7				
8				
9				

LAB #: **AA-H0231**
 FOR LAB USE ONLY
 Entered into LIMS: **CAF**
 Tracking #: **787412583381**

Sample Condition Upon Receipt



Client Name: GA Power

Project # AAH0231

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 7874 1258338

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used IR-4

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 22.48

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: _____

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>8/15/17 GW</u>			
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



PACE ANALYTICAL SERVICES, LLC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 8/7/2017 2:31:01PM

Attn: Ms. Lauren Petty

Client: Georgia Power
Project: Georgia HSRA Program
Date Received: 08/05/17 09:30

Work Order: AAH0231
Logged In By: Charles Hawks

OBSERVATIONS

#Samples: 9 **#Containers:** 24
Minimum Temp(C): 22.4 **Maximum Temp(C):** 22.4 **Custody Seal(s) Used:** Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	NO
Preservation Confirmed	YES

Comments:

March 05, 2018

Lauren Petty
Southern Company Services, Inc.
42 Inverness Center Parkway
Birmingham, AL 35242

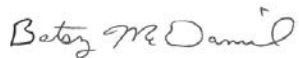
RE: Project: Plant Kraft AP
Pace Project No.: 261658

Dear Lauren Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kevin Stephenson, Resolute Environmental & Water
Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water
Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft AP

Pace Project No.: 261658

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Texas Certification #: T104704397-08-TX

Virginia Certification #: 460204

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft AP

Pace Project No.: 261658

Lab ID	Sample ID	Matrix	Date Collected	Date Received
261658001	KMW-08	Water	02/08/18 13:30	02/09/18 09:30
261658002	KMW-08	Water	02/08/18 13:30	02/09/18 09:30
261658003	KMW-12	Water	02/08/18 15:05	02/09/18 09:30
261658004	KMW-12	Water	02/08/18 15:05	02/09/18 09:30
261658005	KMW-09	Water	02/08/18 09:45	02/09/18 09:30
261658006	KMW-09	Water	02/08/18 09:45	02/09/18 09:30
261658007	KMW-10	Water	02/08/18 11:50	02/09/18 09:30
261658008	KMW-10	Water	02/08/18 11:50	02/09/18 09:30
261658009	EQBL020818	Water	02/08/18 16:15	02/09/18 09:30
261658010	EQBL020818	Water	02/08/18 16:15	02/09/18 09:30
261658011	FBL020818	Water	02/08/18 16:30	02/09/18 09:30
261658012	FBL020818	Water	02/08/18 16:30	02/09/18 09:30
261658013	KMW-11	Water	02/08/18 17:20	02/09/18 09:30
261658014	KMW-11	Water	02/08/18 17:20	02/09/18 09:30
261658015	Dup-02	Water	02/08/18 00:00	02/09/18 09:30
261658016	Dup-02	Water	02/08/18 00:00	02/09/18 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft AP
Pace Project No.: 261658

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
261658001	KMW-08	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261658002	KMW-08	EPA 6020B	KLH	1	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261658003	KMW-12	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261658004	KMW-12	EPA 6020B	CSW, KLH	5	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261658005	KMW-09	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261658006	KMW-09	EPA 6020B	KLH	1	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261658007	KMW-10	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261658008	KMW-10	EPA 6020B	KLH	1	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261658009	EQBL020818	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261658010	EQBL020818	EPA 6020B	KLH	5	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261658011	FBL020818	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft AP

Pace Project No.: 261658

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
261658012	FBL020818	Total Radium Calculation	CMC	1	PASI-PA
		EPA 6020B	KLH	5	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
261658013	KMW-11	EPA 300.0	RLC	2	PASI-GA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
261658014	KMW-11	Total Radium Calculation	CMC	1	PASI-PA
		EPA 6020B	KLH	5	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
261658015	Dup-02	EPA 300.0	RLC	2	PASI-GA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
261658016	Dup-02	Total Radium Calculation	CMC	1	PASI-PA
		EPA 6020B	KLH	5	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: KMW-08		Lab ID: 261658002		Collected: 02/08/18 13:30	Received: 02/09/18 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 15:52	7440-38-2		
2320B Alkalinity Low Level		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	9.5	mg/L	1.0	1.0	1		02/23/18 12:50			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/23/18 12:50			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	106	mg/L	25.0	25.0	1		02/12/18 19:47		D6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	8.3	mg/L	0.25	0.024	1		02/12/18 17:32	16887-00-6		
Sulfate	18.3	mg/L	1.0	0.017	1		02/12/18 17:32	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: KMW-12		Lab ID: 261658004		Collected: 02/08/18 15:05	Received: 02/09/18 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 16:53	7440-38-2		
Calcium	266000	ug/L	25000	2020	50	02/15/18 08:13	02/15/18 16:59	7440-70-2		
Magnesium	31600	ug/L	2500	314	50	02/15/18 08:13	02/15/18 16:59	7439-95-4		
Potassium	13500	ug/L	5000	825	50	02/15/18 08:13	02/15/18 16:59	7440-09-7		
Sodium	682000	ug/L	25000	3370	250	02/15/18 08:13	02/22/18 14:05	7440-23-5		
2320B Alkalinity		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	64.0	mg/L	20.0	20.0	1		02/22/18 18:54			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	20.0	1		02/22/18 18:54			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	3540	mg/L	250	250	1		02/12/18 19:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	1540	mg/L	25.0	2.4	100		02/22/18 16:53	16887-00-6		
Sulfate	261J	mg/L	100	1.7	100		02/22/18 16:53	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: KMW-09		Lab ID: 261658006		Collected: 02/08/18 09:45	Received: 02/09/18 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 17:05	7440-38-2		
2320B Alkalinity		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	92.0	mg/L	20.0	20.0	1		02/22/18 18:57			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	20.0	1		02/22/18 18:57			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	285	mg/L	25.0	25.0	1		02/12/18 19:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	68.1	mg/L	2.5	0.24	10		02/22/18 17:13	16887-00-6		
Sulfate	26.5J	mg/L	10.0	0.17	10		02/22/18 17:13	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: KMW-10		Lab ID: 261658008		Collected: 02/08/18 11:50	Received: 02/09/18 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	2.3J	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 17:29	7440-38-2	
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Bicarbonate (CaCO ₃)	105	mg/L	20.0	20.0	1		02/19/18 16:57		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	20.0	1		02/19/18 16:57		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	174	mg/L	25.0	25.0	1		02/12/18 19:47		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	8.3	mg/L	0.25	0.024	1		02/12/18 19:57	16887-00-6	
Sulfate	5.9	mg/L	1.0	0.017	1		02/12/18 19:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: EQBL020818		Lab ID: 261658010		Collected: 02/08/18 16:15	Received: 02/09/18 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 17:41	7440-38-2		
Calcium	ND	ug/L	500	40.4	1	02/15/18 08:13	02/15/18 17:41	7440-70-2		
Magnesium	ND	ug/L	50.0	6.3	1	02/15/18 08:13	02/15/18 17:41	7439-95-4		
Potassium	ND	ug/L	100	16.5	1	02/15/18 08:13	02/15/18 17:41	7440-09-7		
Sodium	22.7J	ug/L	100	13.5	1	02/15/18 08:13	02/15/18 17:41	7440-23-5		
2320B Alkalinity Low Level		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/22/18 16:38			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/22/18 16:38			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/12/18 19:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.31J	mg/L	0.25	0.024	1		02/12/18 20:18	16887-00-6		
Sulfate	ND	mg/L	1.0	0.017	1		02/12/18 20:18	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: FBL020818		Lab ID: 261658012		Collected: 02/08/18 16:30	Received: 02/09/18 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 17:46	7440-38-2		
Calcium	ND	ug/L	500	40.4	1	02/15/18 08:13	02/15/18 17:46	7440-70-2		
Magnesium	ND	ug/L	50.0	6.3	1	02/15/18 08:13	02/15/18 17:46	7439-95-4		
Potassium	ND	ug/L	100	16.5	1	02/15/18 08:13	02/15/18 17:46	7440-09-7		
Sodium	ND	ug/L	100	13.5	1	02/15/18 08:13	02/15/18 17:46	7440-23-5		
2320B Alkalinity Low Level		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/22/18 16:45			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/22/18 16:45			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/12/18 19:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		02/12/18 20:59	16887-00-6		
Sulfate	ND	mg/L	1.0	0.017	1		02/12/18 20:59	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: KMW-11		Lab ID: 261658014		Collected: 02/08/18 17:20	Received: 02/09/18 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 17:52	7440-38-2		
Calcium	191000	ug/L	25000	2020	50	02/15/18 08:13	02/15/18 17:58	7440-70-2		
Magnesium	7460	ug/L	50.0	6.3	1	02/15/18 08:13	02/15/18 17:52	7439-95-4		
Potassium	3810	ug/L	100	16.5	1	02/15/18 08:13	02/15/18 17:52	7440-09-7		
Sodium	59900	ug/L	5000	674	50	02/15/18 08:13	02/15/18 17:58	7440-23-5		
2320B Alkalinity		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	119	mg/L	20.0	20.0	1		02/19/18 17:09			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	20.0	1		02/19/18 17:09			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	1200	mg/L	125	125	1		02/12/18 19:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	355	mg/L	5.0	0.48	20		02/27/18 04:35	16887-00-6		
Sulfate	92.4	mg/L	10.0	0.17	10		02/22/18 17:34	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: Dup-02		Lab ID: 261658016		Collected: 02/08/18 00:00	Received: 02/09/18 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 18:09	7440-38-2		
Calcium	186000	ug/L	25000	2020	50	02/15/18 08:13	02/15/18 18:15	7440-70-2		
Magnesium	7380	ug/L	50.0	6.3	1	02/15/18 08:13	02/15/18 18:09	7439-95-4		
Potassium	3770	ug/L	100	16.5	1	02/15/18 08:13	02/15/18 18:09	7440-09-7		
Sodium	59100	ug/L	5000	674	50	02/15/18 08:13	02/15/18 18:15	7440-23-5		
2320B Alkalinity		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	119	mg/L	20.0	20.0	1		02/19/18 17:18			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	20.0	1		02/19/18 17:18			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	1060	mg/L	125	125	1		02/12/18 19:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	347	mg/L	5.0	0.48	20		02/27/18 04:55	16887-00-6		
Sulfate	90.9	mg/L	10.0	0.17	10		02/22/18 17:55	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft AP
Pace Project No.: 261658

QC Batch: 911 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 261658002, 261658004, 261658006, 261658008, 261658010, 261658012, 261658014, 261658016

METHOD BLANK: 6438 Matrix: Water
Associated Lab Samples: 261658002, 261658004, 261658006, 261658008, 261658010, 261658012, 261658014, 261658016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	0.52	02/15/18 13:46	
Calcium	ug/L	ND	500	40.4	02/15/18 13:46	
Magnesium	ug/L	ND	50.0	6.3	02/15/18 13:46	
Potassium	ug/L	ND	100	16.5	02/15/18 13:46	
Sodium	ug/L	ND	100	13.5	02/15/18 13:46	

LABORATORY CONTROL SAMPLE: 6439

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	100	99.6	100	80-120	
Calcium	ug/L	1000	981	98	80-120	
Magnesium	ug/L	1000	1020	102	80-120	
Potassium	ug/L	1000	991	99	80-120	
Sodium	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6550 6551

Parameter	Units	261658002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Arsenic	ug/L	ND	100	100	98.5	100	98	100	75-125	2	20	
Calcium	ug/L		1000	1000	9550	9770	95	117	75-125	2	20	
Magnesium	ug/L		1000	1000	2690	2760	99	106	75-125	3	20	
Potassium	ug/L		1000	1000	4070	4160	98	107	75-125	2	20	
Sodium	ug/L		1000	1000	5780	5950	95	112	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Kraft AP

Pace Project No.: 261658

QC Batch: 397694

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 261658002, 261658004, 261658006, 261658008, 261658010, 261658012, 261658014, 261658016

METHOD BLANK: 2205796

Matrix: Water

Associated Lab Samples: 261658002, 261658004, 261658006, 261658008, 261658010, 261658012, 261658014, 261658016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/12/18 19:47	

LABORATORY CONTROL SAMPLE: 2205797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 2205798

Parameter	Units	261545001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	233	227	3	5	

SAMPLE DUPLICATE: 2205799

Parameter	Units	261658002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	106	94.0	12	5	D6

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QUALITY CONTROL DATA

Project: Plant Kraft AP

Pace Project No.: 261658

QC Batch: 859 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 261658002, 261658004, 261658006, 261658008, 261658010, 261658012, 261658014, 261658016

METHOD BLANK: 6241 Matrix: Water
 Associated Lab Samples: 261658002, 261658004, 261658006, 261658008, 261658010, 261658012, 261658014, 261658016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	02/12/18 13:45	
Sulfate	mg/L	ND	1.0	0.017	02/12/18 13:45	

LABORATORY CONTROL SAMPLE: 6242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.9	99	90-110	
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6243 6244

Parameter	Units	261599002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	139	10	10	90.7	90.7	-484	-483	90-110	0	15	E,M1
Sulfate	mg/L	78.7	10	10	76.2	76.3	-25	-24	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 6245

Parameter	Units	261599004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1720	10	318	-14000	90-110	E,M1
Sulfate	mg/L	319J	10	205	-1140	90-110	E,M1

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: KMW-08 **Lab ID: 261658001** Collected: 02/08/18 13:30 Received: 02/09/18 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.360 ± 0.240 (0.357) C:85% T:NA	pCi/L	02/16/18 08:16	13982-63-3	
Radium-228	EPA 9320	0.567 ± 0.376 (0.721) C:79% T:87%	pCi/L	02/23/18 13:19	15262-20-1	
Total Radium	Total Radium Calculation	0.927 ± 0.616 (1.08)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: KMW-12 **Lab ID: 261658003** Collected: 02/08/18 15:05 Received: 02/09/18 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	4.17 ± 0.951 (0.395) C:76% T:NA	pCi/L	02/16/18 08:16	13982-63-3	
Radium-228	EPA 9320	1.40 ± 0.493 (0.713) C:82% T:84%	pCi/L	02/23/18 13:19	15262-20-1	
Total Radium	Total Radium Calculation	5.57 ± 1.44 (1.11)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: KMW-09 **Lab ID: 261658005** Collected: 02/08/18 09:45 Received: 02/09/18 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.41 ± 0.485 (0.456) C:80% T:NA	pCi/L	02/16/18 08:16	13982-63-3	
Radium-228	EPA 9320	0.428 ± 0.367 (0.744) C:79% T:87%	pCi/L	02/23/18 13:19	15262-20-1	
Total Radium	Total Radium Calculation	1.84 ± 0.852 (1.20)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: KMW-10 **Lab ID: 261658007** Collected: 02/08/18 11:50 Received: 02/09/18 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.581 ± 0.302 (0.387) C:84% T:NA	pCi/L	02/16/18 08:16	13982-63-3	
Radium-228	EPA 9320	0.673 ± 0.410 (0.772) C:79% T:84%	pCi/L	02/23/18 13:19	15262-20-1	
Total Radium	Total Radium Calculation	1.25 ± 0.712 (1.16)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: EQBL020818 **Lab ID: 261658009** Collected: 02/08/18 16:15 Received: 02/09/18 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.213 ± 0.199 (0.357) C:83% T:NA	pCi/L	02/16/18 08:16	13982-63-3	
Radium-228	EPA 9320	0.323 ± 0.463 (0.998) C:78% T:83%	pCi/L	02/23/18 16:31	15262-20-1	
Total Radium	Total Radium Calculation	0.536 ± 0.662 (1.36)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: FBL020818 **Lab ID: 261658011** Collected: 02/08/18 16:30 Received: 02/09/18 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.0315 ± 0.240 (0.618) C:69% T:NA	pCi/L	02/16/18 08:16	13982-63-3	
Radium-228	EPA 9320	0.279 ± 0.393 (0.845) C:81% T:86%	pCi/L	02/23/18 16:31	15262-20-1	
Total Radium	Total Radium Calculation	0.311 ± 0.633 (1.46)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: KMW-11 **Lab ID: 261658013** Collected: 02/08/18 17:20 Received: 02/09/18 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.13 ± 0.597 (0.402) C:84% T:NA	pCi/L	02/16/18 08:16	13982-63-3	
Radium-228	EPA 9320	0.375 ± 0.449 (0.954) C:80% T:89%	pCi/L	02/23/18 16:31	15262-20-1	
Total Radium	Total Radium Calculation	2.51 ± 1.05 (1.36)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261658

Sample: Dup-02 **Lab ID: 261658015** Collected: 02/08/18 00:00 Received: 02/09/18 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.08 ± 0.612 (0.417) C:74% T:NA	pCi/L	02/16/18 08:16	13982-63-3	
Radium-228	EPA 9320	3.42 ± 0.861 (0.880) C:79% T:87%	pCi/L	02/23/18 16:31	15262-20-1	
Total Radium	Total Radium Calculation	5.50 ± 1.47 (1.30)	pCi/L	03/02/18 13:27	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261658

QC Batch: 288045 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Associated Lab Samples: 261658001, 261658003, 261658005, 261658007, 261658009, 261658011, 261658013, 261658015

METHOD BLANK: 1411778 Matrix: Water

Associated Lab Samples: 261658001, 261658003, 261658005, 261658007, 261658009, 261658011, 261658013, 261658015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.233 ± 0.202 (0.346) C:86% T:NA	pCi/L	02/16/18 08:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261658

QC Batch: 288055 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Associated Lab Samples: 261658001, 261658003, 261658005, 261658007, 261658009, 261658011, 261658013, 261658015

METHOD BLANK: 1411785 Matrix: Water

Associated Lab Samples: 261658001, 261658003, 261658005, 261658007, 261658009, 261658011, 261658013, 261658015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.738 ± 0.410 (0.739) C:78% T:78%	pCi/L	02/23/18 13:19	

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QUALIFIERS

Project: Plant Kraft AP
Pace Project No.: 261658

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville
PASI-GA Pace Analytical Services - Atlanta, GA
PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
E Analyte concentration exceeded the calibration range. The reported result is estimated.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft AP

Pace Project No.: 261658

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
261658002	KMW-08	EPA 3005A	911	EPA 6020B	1093
261658004	KMW-12	EPA 3005A	911	EPA 6020B	1093
261658006	KMW-09	EPA 3005A	911	EPA 6020B	1093
261658008	KMW-10	EPA 3005A	911	EPA 6020B	1093
261658010	EQBL020818	EPA 3005A	911	EPA 6020B	1093
261658012	FBL020818	EPA 3005A	911	EPA 6020B	1093
261658014	KMW-11	EPA 3005A	911	EPA 6020B	1093
261658016	Dup-02	EPA 3005A	911	EPA 6020B	1093
261658001	KMW-08	EPA 9315	288045		
261658003	KMW-12	EPA 9315	288045		
261658005	KMW-09	EPA 9315	288045		
261658007	KMW-10	EPA 9315	288045		
261658009	EQBL020818	EPA 9315	288045		
261658011	FBL020818	EPA 9315	288045		
261658013	KMW-11	EPA 9315	288045		
261658015	Dup-02	EPA 9315	288045		
261658001	KMW-08	EPA 9320	288055		
261658003	KMW-12	EPA 9320	288055		
261658005	KMW-09	EPA 9320	288055		
261658007	KMW-10	EPA 9320	288055		
261658009	EQBL020818	EPA 9320	288055		
261658011	FBL020818	EPA 9320	288055		
261658013	KMW-11	EPA 9320	288055		
261658015	Dup-02	EPA 9320	288055		
261658001	KMW-08	Total Radium Calculation	289957		
261658003	KMW-12	Total Radium Calculation	289957		
261658005	KMW-09	Total Radium Calculation	289957		
261658007	KMW-10	Total Radium Calculation	289957		
261658009	EQBL020818	Total Radium Calculation	289957		
261658011	FBL020818	Total Radium Calculation	289957		
261658013	KMW-11	Total Radium Calculation	289957		
261658015	Dup-02	Total Radium Calculation	289957		
261658004	KMW-12	SM 2320B	1487		
261658006	KMW-09	SM 2320B	1487		
261658008	KMW-10	SM 2320B	1237		
261658014	KMW-11	SM 2320B	1237		
261658016	Dup-02	SM 2320B	1237		
261658002	KMW-08	SM 2320B	1527		
261658010	EQBL020818	SM 2320B	1464		
261658012	FBL020818	SM 2320B	1464		
261658002	KMW-08	SM 2540C	397694		
261658004	KMW-12	SM 2540C	397694		
261658006	KMW-09	SM 2540C	397694		
261658008	KMW-10	SM 2540C	397694		
261658010	EQBL020818	SM 2540C	397694		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft AP

Pace Project No.: 261658

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
261658012	FBL020818	SM 2540C	397694		
261658014	KMW-11	SM 2540C	397694		
261658016	Dup-02	SM 2540C	397694		
261658002	KMW-08	EPA 300.0	859		
261658004	KMW-12	EPA 300.0	859		
261658006	KMW-09	EPA 300.0	859		
261658008	KMW-10	EPA 300.0	859		
261658010	EQBL020818	EPA 300.0	859		
261658012	FBL020818	EPA 300.0	859		
261658014	KMW-11	EPA 300.0	859		
261658016	Dup-02	EPA 300.0	859		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt



Client Name: GIA Power

Project # _____

WO#: 261658

PM: BM Due Date: 02/16/18

CLIENT: GAPower

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used THR 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.2

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 2/9/18 BM

Temp should be above freezing to 8°C

Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>GW</u>			
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): _____			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp incorrect containers)

March 07, 2018

Lauren Petty
Southern Company Services, Inc.
42 Inverness Center Parkway
Birmingham, AL 35242

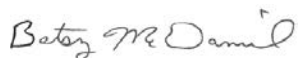
RE: Project: Plant Kraft
Pace Project No.: 261705

Dear Lauren Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kevin Stephenson, Resolute Environmental & Water
Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water
Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft
Pace Project No.: 261705

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft
Pace Project No.: 261705

Lab ID	Sample ID	Matrix	Date Collected	Date Received
261705001	MW-15DR	Water	02/09/18 11:30	02/12/18 08:15
261705002	MW-15DR	Water	02/09/18 11:30	02/12/18 08:15
261705003	EQBL020918	Water	02/09/18 12:00	02/12/18 08:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft

Pace Project No.: 261705

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
261705001	MW-15DR	EPA 904.0	JLW	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
261705002	MW-15DR	EPA 8270 by SIM	PKS	7	PASI-C
261705003	EQBL020918	EPA 8270 by SIM	PKS	7	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft

Pace Project No.: 261705

Sample: MW-15DR		Lab ID: 261705002		Collected: 02/09/18 11:30		Received: 02/12/18 08:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Benzo(a)anthracene	0.00052	mg/L	0.000050	0.000050	1	02/15/18 17:25	02/16/18 19:54	56-55-3	R1
Benzo(a)pyrene	ND	mg/L	0.00020	0.00020	1	02/15/18 17:25	02/16/18 19:54	50-32-8	R1
Benzo(b)fluoranthene	0.00022	mg/L	0.000050	0.000050	1	02/15/18 17:25	02/16/18 19:54	205-99-2	R1
Indeno(1,2,3-cd)pyrene	0.000052	mg/L	0.000050	0.000050	1	02/15/18 17:25	02/16/18 19:54	193-39-5	M1,R1
Surrogates									
Nitrobenzene-d5 (S)	22	%	30-150		1	02/15/18 17:25	02/16/18 19:54	4165-60-0	S2
2-Fluorobiphenyl (S)	51	%	30-150		1	02/15/18 17:25	02/16/18 19:54	321-60-8	
Terphenyl-d14 (S)	28	%	30-150		1	02/15/18 17:25	02/16/18 19:54	1718-51-0	S0

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft

Pace Project No.: 261705

Sample: EQBL020918		Lab ID: 261705003		Collected: 02/09/18 12:00		Received: 02/12/18 08:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	mg/L	0.000048	0.000048	1	02/15/18 17:25	02/16/18 21:03	56-55-3	
Benzo(a)pyrene	ND	mg/L	0.00019	0.00019	1	02/15/18 17:25	02/16/18 21:03	50-32-8	
Benzo(b)fluoranthene	ND	mg/L	0.000048	0.000048	1	02/15/18 17:25	02/16/18 21:03	205-99-2	
Indeno(1,2,3-cd)pyrene	ND	mg/L	0.000048	0.000048	1	02/15/18 17:25	02/16/18 21:03	193-39-5	
Surrogates									
Nitrobenzene-d5 (S)	77	%	30-150		1	02/15/18 17:25	02/16/18 21:03	4165-60-0	
2-Fluorobiphenyl (S)	77	%	30-150		1	02/15/18 17:25	02/16/18 21:03	321-60-8	
Terphenyl-d14 (S)	80	%	30-150		1	02/15/18 17:25	02/16/18 21:03	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft
Pace Project No.: 261705

QC Batch: 398269 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water CPAH by SIM MSSV 3510
Associated Lab Samples: 261705002, 261705003

METHOD BLANK: 2209247 Matrix: Water
Associated Lab Samples: 261705002, 261705003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzo(a)anthracene	mg/L	ND	0.000050	0.000050	02/16/18 18:21	
Benzo(a)pyrene	mg/L	ND	0.00020	0.00020	02/16/18 18:21	
Benzo(b)fluoranthene	mg/L	ND	0.000050	0.000050	02/16/18 18:21	
Indeno(1,2,3-cd)pyrene	mg/L	ND	0.000050	0.000050	02/16/18 18:21	
2-Fluorobiphenyl (S)	%	75	30-150		02/16/18 18:21	
Nitrobenzene-d5 (S)	%	82	30-150		02/16/18 18:21	
Terphenyl-d14 (S)	%	96	30-150		02/16/18 18:21	

LABORATORY CONTROL SAMPLE: 2209248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)anthracene	mg/L	.001	0.00091	91	51-134	
Benzo(a)pyrene	mg/L	.001	0.00088	88	58-133	
Benzo(b)fluoranthene	mg/L	.001	0.00097	97	42-143	
Indeno(1,2,3-cd)pyrene	mg/L	.001	0.00092	92	46-121	
2-Fluorobiphenyl (S)	%			72	30-150	
Nitrobenzene-d5 (S)	%			79	30-150	
Terphenyl-d14 (S)	%			97	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209249 2209250

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		261705002 Result	Spike Conc.	Spike Conc.	MS Result						
Benzo(a)anthracene	mg/L	0.00052	.002	.002	0.0021	0.0013	78	39	18-104	47	30 R1
Benzo(a)pyrene	mg/L	ND	.002	.002	0.00085	0.00050	36	19	14-121	53	30 R1
Benzo(b)fluoranthene	mg/L	0.00022	.002	.002	0.0011	0.00059	43	18	11-116	59	30 R1
Indeno(1,2,3-cd)pyrene	mg/L	0.000052	.002	.002	0.00035	0.00022	15	8	10-120	49	30 M1,R1
2-Fluorobiphenyl (S)	%						68	74	30-150		
Nitrobenzene-d5 (S)	%						14	14	30-150		S2
Terphenyl-d14 (S)	%						37	34	30-150		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 261705

Sample: MW-15DR **Lab ID: 261705001** Collected: 02/09/18 11:30 Received: 02/12/18 08:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-228	EPA 904.0	2.27 ± 0.489 (0.723) C:78% T:86%	pCi/L	02/28/18 11:22	15262-20-1	
Radium-226	EPA 9315	1.40 ± 0.391 (0.444) C:31% T:NA	pCi/L	03/02/18 08:05	13982-63-3	
Total Radium	Total Radium Calculation	3.67 ± 0.880 (1.17)	pCi/L	03/05/18 10:52	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 261705

QC Batch: 288187

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Associated Lab Samples: 261705001

METHOD BLANK: 1412363

Matrix: Water

Associated Lab Samples: 261705001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.249 ± 0.291 (0.611) C:81% T:92%	pCi/L	02/28/18 11:18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 261705

QC Batch: 289267

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 261705001

METHOD BLANK: 1417373

Matrix: Water

Associated Lab Samples: 261705001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0779 ± 0.131 (0.292) C:87% T:NA	pCi/L	03/01/18 08:44	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft
Pace Project No.: 261705

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft

Pace Project No.: 261705

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
261705002	MW-15DR	EPA 3510	398269	EPA 8270 by SIM	398448
261705003	EQBL020918	EPA 3510	398269	EPA 8270 by SIM	398448
261705001	MW-15DR	EPA 904.0	288187		
261705001	MW-15DR	EPA 9315	289267		
261705001	MW-15DR	Total Radium Calculation	290090		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 Of 1

Section A

Required Client Information: **NORTHERN AREA**
 Company: Georgia Power - East Combustion-Residuals
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Email: jbraham@southernco.com
 Phone: (404)506-7239 Fax
 Requested Due Date:

Section B

Required Project Information:
 Report To: Joju Abraham, LAVERN BERRY, LARRY WILSON
 Copy To: STEPHEN WILSON, TRENT GORDWIN
 Project Name: Plant Kraft/NORTHERN AREA
 Purchase Order #: 329
 Project #: 329

Section C

Invoice Information:
 Attention: beisy.medaniel@pacelabs.com
 Company Name: Pace Project Manager: beisy.medaniel@pacelabs.com
 Address: Pace Profile #: 329
 State/Location: GA

ITEM #	MATRIX	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analytes Test Y/N	Radium 226/228	Metals 6020 (As, Ca, Mg, K, Ni)	Metals 6020 (As only)	Catb Alk, Bleach Alk, TDS, C	PAH 8270/SIM	Residual Chlorine (Y/N)	Requested Analytes: Filtered (Y/N)
				START DATE TIME	END DATE TIME										
1	Drinking Water	WT G	G	02/19/18 11:30	02/19/18 11:30	8	H2SO4, Unpreserved		2				6		
2	Waste Water	WT G	G	02/19/18 12:00	02/19/18 12:00	2	H2SO4, Unpreserved		2				2		
3	Waste Water														
4	Waste Water														
5	Waste Water														
6	Waste Water														
7	Waste Water														
8	Waste Water														
9	Waste Water														
10	Waste Water														
11	Waste Water														
12	Waste Water														

NO#: 261705

RECEIVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Received on	Temp in C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
MICHAEL PATINKIN	02/12/18	08:15	M. RALMAN	2/12/18	08:15			0.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: MICHAEL PATINKIN
 SIGNATURE of SAMPLER:

DATE Signed: 02/12/18

Client.

Sample Condition Upon Receipt



Client Name: GIA Power

Project # _____

WO#: 261705

PM: **BM**

Due Date: **02/19/18**

CLIENT: **GAPower**

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used THR083 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.5 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 8°C

Date and Initials of person examining contents: 2/12/18 MR

Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):	_____		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp incorrect containers)

March 19, 2018

Lauren Petty
Southern Company Services, Inc.
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Kraft AP
Pace Project No.: 261999

Dear Lauren Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on February 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kevin Stephenson, Resolute Environmental & Water
Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water
Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft AP
Pace Project No.: 261999

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092	North Carolina Certification #: 381
Florida DOH Certification #: E87315	South Carolina Certification #: 98011001
Georgia DW Inorganics Certification #: 812	Texas Certification #: T104704397-08-TX
Georgia DW Microbiology Certification #: 812	Virginia Certification #: 460204

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601	Montana Certification #: Cert 0082
L-A-B DOD-ELAP Accreditation #: L2417	Nebraska Certification #: NE-05-29-14
Alabama Certification #: 41590	Nevada Certification #: PA014572015-1
Arizona Certification #: AZ0734	New Hampshire/TNI Certification #: 2976
Arkansas Certification	New Jersey/TNI Certification #: PA 051
California Certification #: 04222CA	New Mexico Certification #: PA01457
Colorado Certification	New York/TNI Certification #: 10888
Connecticut Certification #: PH-0694	North Carolina Certification #: 42706
Delaware Certification	North Dakota Certification #: R-190
Florida/TNI Certification #: E87683	Oregon/TNI Certification #: PA200002
Georgia Certification #: C040	Pennsylvania/TNI Certification #: 65-00282
Guam Certification	Puerto Rico Certification #: PA01457
Hawaii Certification	Rhode Island Certification #: 65-00282
Idaho Certification	South Dakota Certification
Illinois Certification	Tennessee Certification #: TN2867
Indiana Certification	Texas/TNI Certification #: T104704188-14-8
Iowa Certification #: 391	Utah/TNI Certification #: PA014572015-5
Kansas/TNI Certification #: E-10358	USDA Soil Permit #: P330-14-00213
Kentucky Certification #: 90133	Vermont Dept. of Health: ID# VT-0282
Louisiana DHH/TNI Certification #: LA140008	Virgin Island/PADEP Certification
Louisiana DEQ/TNI Certification #: 4086	Virginia/VELAP Certification #: 460198
Maine Certification #: PA00091	Washington Certification #: C868
Maryland Certification #: 308	West Virginia DEP Certification #: 143
Massachusetts Certification #: M-PA1457	West Virginia DHHR Certification #: 9964C
Michigan/PADEP Certification	Wisconsin Certification
Missouri Certification #: 235	Wyoming Certification #: 8TMS-L

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804	North Carolina Wastewater Certification #: 40
Florida/NELAP Certification #: E87648	South Carolina Certification #: 99030001
Massachusetts Certification #: M-NC030	Virginia/VELAP Certification #: 460222
North Carolina Drinking Water Certification #: 37712	

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft AP

Pace Project No.: 261999

Lab ID	Sample ID	Matrix	Date Collected	Date Received
261999001	KMW-03	Water	02/19/18 13:30	02/20/18 09:30
261999002	KMW-03	Water	02/19/18 13:30	02/20/18 09:30
261999003	KMW-13	Water	02/19/18 15:05	02/20/18 09:30
261999004	KMW-13	Water	02/19/18 15:05	02/20/18 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft AP

Pace Project No.: 261999

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
261999001	KMW-03	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
261999002	KMW-03	EPA 6020B	CSW	4	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261999003	KMW-13	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
261999004	KMW-13	EPA 6020B	CSW	4	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261999

Sample: KMW-03		Lab ID: 261999002		Collected: 02/19/18 13:30	Received: 02/20/18 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Calcium	39800	ug/L	25000	2020	50	02/22/18 10:25	02/24/18 01:10	7440-70-2	
Magnesium	13200	ug/L	2500	314	50	02/22/18 10:25	02/24/18 01:10	7439-95-4	
Potassium	17100	ug/L	1000	165	10	02/22/18 10:25	02/27/18 19:31	7440-09-7	
Sodium	8320	ug/L	100	13.5	1	02/22/18 10:25	02/24/18 01:05	7440-23-5	
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Bicarbonate (CaCO3)	166	mg/L	20.0	20.0	1		02/26/18 15:54		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		02/26/18 15:54		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	232	mg/L	25.0	25.0	1		02/25/18 10:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	10.5	mg/L	0.25	0.024	1		02/23/18 21:12	16887-00-6	M1
Sulfate	25.2	mg/L	5.0	0.085	5		03/03/18 10:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261999

Sample: KMW-13		Lab ID: 261999004		Collected: 02/19/18 15:05	Received: 02/20/18 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Calcium	46500	ug/L	5000	404	10	02/22/18 10:25	02/27/18 19:42	7440-70-2	
Magnesium	9840	ug/L	50.0	6.3	1	02/22/18 10:25	02/24/18 01:28	7439-95-4	
Potassium	6550	ug/L	100	16.5	1	02/22/18 10:25	02/24/18 01:28	7440-09-7	
Sodium	160000	ug/L	5000	674	50	02/22/18 10:25	02/28/18 16:27	7440-23-5	
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Bicarbonate (CaCO3)	65.0	mg/L	20.0	20.0	1		02/26/18 16:02		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		02/26/18 16:02		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	706	mg/L	50.0	50.0	1		02/25/18 10:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	205	mg/L	5.0	0.48	20		03/03/18 11:02	16887-00-6	
Sulfate	174	mg/L	20.0	0.34	20		03/03/18 11:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft AP

Pace Project No.: 261999

QC Batch: 1353 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 261999002, 261999004

METHOD BLANK: 8341 Matrix: Water

Associated Lab Samples: 261999002, 261999004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	ug/L	ND	500	40.4	02/23/18 22:07	
Magnesium	ug/L	ND	50.0	6.3	02/23/18 22:07	
Potassium	ug/L	ND	100	16.5	02/27/18 17:30	
Sodium	ug/L	ND	100	13.5	02/23/18 22:07	

LABORATORY CONTROL SAMPLE: 8342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	1000	1070	107	80-120	
Magnesium	ug/L	1000	1080	108	80-120	
Potassium	ug/L	1000	1080	108	80-120	
Sodium	ug/L	1000	1060	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 8966 8967

Parameter	Units	261937009 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	ug/L	50100	1000	1000	53200	51200	306	109	75-125	4	20	
Magnesium	ug/L				23600	23700				1	20	
Potassium	ug/L	3770	1000	1000	4730	4840	96	107	75-125	2	20	
Sodium	ug/L				36000	36800				2	20	

SAMPLE DUPLICATE: 8979

Parameter	Units	261999004 Result	Dup Result	RPD	Max RPD	Qualifiers
Calcium	ug/L	46500	48300	4	20	
Magnesium	ug/L	9840	9460	4	20	
Potassium	ug/L	6550	6390	2	20	
Sodium	ug/L	160000	157000	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft AP

Pace Project No.: 261999

QC Batch: 399633	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 261999002, 261999004	

METHOD BLANK: 2216623 Matrix: Water

Associated Lab Samples: 261999002, 261999004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	2.5	2.5	02/25/18 10:19	

LABORATORY CONTROL SAMPLE: 2216624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	228	91	90-110	

SAMPLE DUPLICATE: 2216625

Parameter	Units	92373944008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	176	172	2	5	

SAMPLE DUPLICATE: 2216626

Parameter	Units	92373944018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft AP
Pace Project No.: 261999

QC Batch: 1520 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 261999002, 261999004

METHOD BLANK: 9129 Matrix: Water
Associated Lab Samples: 261999002, 261999004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	02/23/18 19:47	
Sulfate	mg/L	ND	1.0	0.017	02/23/18 19:47	

LABORATORY CONTROL SAMPLE: 9130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Sulfate	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 9134 9135

Parameter	Units	261999002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.5	10	10	18.8	18.8	83	83	90-110	0	15	M1
Sulfate	mg/L	25.2	10	10	33.3	33.4	82	82	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 9296

Parameter	Units	261999004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	205	10	113	-926	90-110	E
Sulfate	mg/L	174	10	141	-338	90-110	E

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261999

Sample: KMW-03 **Lab ID: 261999001** Collected: 02/19/18 13:30 Received: 02/20/18 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.30 ± 0.407 (0.357) C:79% T:NA	pCi/L	03/01/18 10:19	13982-63-3	
Radium-228	EPA 9320	1.21 ± 0.527 (0.834) C:74% T:80%	pCi/L	03/06/18 13:24	15262-20-1	
Total Radium	Total Radium Calculation	2.51 ± 0.934 (1.19)	pCi/L	03/09/18 12:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261999

Sample: KMW-13 **Lab ID: 261999003** Collected: 02/19/18 15:05 Received: 02/20/18 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.864 ± 0.322 (0.302) C:78% T:NA	pCi/L	03/01/18 10:19	13982-63-3	
Radium-228	EPA 9320	0.349 ± 0.388 (0.808) C:74% T:82%	pCi/L	03/06/18 13:24	15262-20-1	
Total Radium	Total Radium Calculation	1.21 ± 0.710 (1.11)	pCi/L	03/09/18 12:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261999

QC Batch: 289268

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 261999001, 261999003

METHOD BLANK: 1417374

Matrix: Water

Associated Lab Samples: 261999001, 261999003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.206 ± 0.148 (0.216) C:92% T:NA	pCi/L	03/01/18 10:12	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261999

QC Batch: 289271

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 261999001, 261999003

METHOD BLANK: 1417377

Matrix: Water

Associated Lab Samples: 261999001, 261999003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.557 ± 0.408 (0.796) C:80% T:87%	pCi/L	03/06/18 13:23	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft AP
Pace Project No.: 261999

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft AP

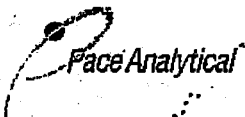
Pace Project No.: 261999

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
261999002	KMW-03	EPA 3005A	1353	EPA 6020B	1565
261999004	KMW-13	EPA 3005A	1353	EPA 6020B	1565
261999001	KMW-03	EPA 9315	289268		
261999003	KMW-13	EPA 9315	289268		
261999001	KMW-03	EPA 9320	289271		
261999003	KMW-13	EPA 9320	289271		
261999001	KMW-03	Total Radium Calculation	290643		
261999003	KMW-13	Total Radium Calculation	290643		
261999002	KMW-03	SM 2320B	1620		
261999004	KMW-13	SM 2320B	1620		
261999002	KMW-03	SM 2540C	399633		
261999004	KMW-13	SM 2540C	399633		
261999002	KMW-03	EPA 300.0	1520		
261999004	KMW-13	EPA 300.0	1520		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt



Client Name: GIA Power

Project #

WO#: 261999

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 789796486028

PH: 8M

Due Date: 02/27/18

CLIENT: GAPower

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 1.1

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 2/20/18 MR

Temp should be above freezing to 8°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

March 09, 2018

Lauren Petty
Southern Company Services, Inc.
42 Inverness Center Parkway
Birmingham, AL 35242

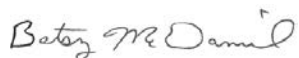
RE: Project: Plant Kraft Ash Ponds
Pace Project No.: 261511

Dear Lauren Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kevin Stephenson, Resolute Environmental & Water
Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water
Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft Ash Ponds
Pace Project No.: 261511

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

Lab ID	Sample ID	Matrix	Date Collected	Date Received
261511001	KMW-04	Water	02/06/18 15:00	02/07/18 09:35
261511002	KMW-04	Water	02/06/18 15:00	02/07/18 09:35
261511003	KMW-06	Water	02/06/18 16:30	02/07/18 09:35
261511004	KMW-06	Water	02/06/18 16:30	02/07/18 09:35
261511005	KMW-05	Water	02/06/18 13:55	02/07/18 09:35
261511006	KMW-05	Water	02/06/18 13:55	02/07/18 09:35
261511007	KMW-07	Water	02/06/18 16:20	02/07/18 09:35
261511008	KMW-07	Water	02/06/18 16:20	02/07/18 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
261511001	KMW-04	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261511002	KMW-04	EPA 6020B	KLH	5	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261511003	KMW-06	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261511004	KMW-06	EPA 6020B	CSW, KLH	5	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261511005	KMW-05	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261511006	KMW-05	EPA 6020B	CSW, KLH	5	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261511007	KMW-07	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261511008	KMW-07	EPA 6020B	CSW, KLH	5	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

Sample: KMW-04		Lab ID: 261511002		Collected: 02/06/18 15:00	Received: 02/07/18 09:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	3.2J	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 13:57	7440-38-2		
Calcium	53400	ug/L	25000	2020	50	02/15/18 08:13	02/15/18 14:03	7440-70-2		
Magnesium	9400	ug/L	50.0	6.3	1	02/15/18 08:13	02/15/18 13:57	7439-95-4		
Potassium	9480	ug/L	100	16.5	1	02/15/18 08:13	02/15/18 13:57	7440-09-7		
Sodium	310000	ug/L	5000	674	50	02/15/18 08:13	02/15/18 14:03	7440-23-5		
2320B Alkalinity		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	36.0	mg/L	20.0	20.0	1		02/09/18 12:01			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	20.0	1		02/09/18 12:01			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	1140	mg/L	125	125	1		02/09/18 10:50			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	406	mg/L	5.0	0.48	20		02/22/18 15:55	16887-00-6	M1	
Sulfate	210	mg/L	20.0	0.34	20		02/22/18 15:55	14808-79-8	M1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

Sample: KMW-06		Lab ID: 261511004		Collected: 02/06/18 16:30	Received: 02/07/18 09:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	2.6J	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 14:09	7440-38-2		
Calcium	205000	ug/L	25000	2020	50	02/15/18 08:13	02/15/18 14:15	7440-70-2		
Magnesium	57200	ug/L	2500	314	50	02/15/18 08:13	02/15/18 14:15	7439-95-4		
Potassium	35400	ug/L	5000	825	50	02/15/18 08:13	02/15/18 14:15	7440-09-7		
Sodium	1200000	ug/L	250000	33700	2500	02/15/18 08:13	02/22/18 13:36	7440-23-5		
2320B Alkalinity Low Level		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO3)	5.0	mg/L	1.0	1.0	1		02/14/18 11:50			
Alkalinity, Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		02/14/18 11:50			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	3740	mg/L	250	250	1		02/09/18 10:50			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	1920	mg/L	25.0	2.4	100		02/22/18 16:15	16887-00-6		
Sulfate	522	mg/L	100	1.7	100		02/22/18 16:15	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

Sample: KMW-05		Lab ID: 261511006		Collected: 02/06/18 13:55	Received: 02/07/18 09:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	1.2J	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 14:20	7440-38-2		
Calcium	116000	ug/L	25000	2020	50	02/15/18 08:13	02/15/18 14:26	7440-70-2		
Magnesium	52400	ug/L	2500	314	50	02/15/18 08:13	02/15/18 14:26	7439-95-4		
Potassium	31400	ug/L	5000	825	50	02/15/18 08:13	02/15/18 14:26	7440-09-7		
Sodium	1080000	ug/L	250000	33700	2500	02/15/18 08:13	02/22/18 13:42	7440-23-5		
2320B Alkalinity Low Level		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	7.0	mg/L	1.0	1.0	1		02/14/18 12:03			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/14/18 12:03			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	3010	mg/L	250	250	1		02/09/18 10:50			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	1660	mg/L	25.0	2.4	100		02/22/18 16:36	16887-00-6		
Sulfate	392J	mg/L	100	1.7	100		02/22/18 16:36	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

Sample: KMW-07		Lab ID: 261511008		Collected: 02/06/18 16:20	Received: 02/07/18 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	2.5J	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 14:32	7440-38-2	
Calcium	44200	ug/L	25000	2020	50	02/15/18 08:13	02/15/18 14:37	7440-70-2	
Magnesium	17200	ug/L	2500	314	50	02/15/18 08:13	02/15/18 14:37	7439-95-4	
Potassium	20000	ug/L	5000	825	50	02/15/18 08:13	02/15/18 14:37	7440-09-7	
Sodium	547000	ug/L	25000	3370	250	02/15/18 08:13	02/22/18 13:48	7440-23-5	
2320B Alkalinity Low Level		Analytical Method: SM 2320B							
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/14/18 12:09		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/14/18 12:09		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	1740	mg/L	250	250	1		02/09/18 10:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	771	mg/L	25.0	2.4	100		02/22/18 16:57	16887-00-6	
Sulfate	281J	mg/L	100	1.7	100		02/22/18 16:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft Ash Ponds
Pace Project No.: 261511

QC Batch: 911 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 261511002, 261511004, 261511006, 261511008

METHOD BLANK: 6438 Matrix: Water
Associated Lab Samples: 261511002, 261511004, 261511006, 261511008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	0.52	02/15/18 13:46	
Calcium	ug/L	ND	500	40.4	02/15/18 13:46	
Magnesium	ug/L	ND	50.0	6.3	02/15/18 13:46	
Potassium	ug/L	ND	100	16.5	02/15/18 13:46	
Sodium	ug/L	ND	100	13.5	02/15/18 13:46	

LABORATORY CONTROL SAMPLE: 6439

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	100	99.6	100	80-120	
Calcium	ug/L	1000	981	98	80-120	
Magnesium	ug/L	1000	1020	102	80-120	
Potassium	ug/L	1000	991	99	80-120	
Sodium	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6550 6551

Parameter	Units	261658002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result						
Arsenic	ug/L	ND	100	100	98.5	100	98	100	75-125	2	20	
Calcium	ug/L		1000	1000	9550	9770	95	117	75-125	2	20	
Magnesium	ug/L		1000	1000	2690	2760	99	106	75-125	3	20	
Potassium	ug/L		1000	1000	4070	4160	98	107	75-125	2	20	
Sodium	ug/L		1000	1000	5780	5950	95	112	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

QC Batch: 397388

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 261511002, 261511004, 261511006, 261511008

METHOD BLANK: 2203769

Matrix: Water

Associated Lab Samples: 261511002, 261511004, 261511006, 261511008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/09/18 10:50	

LABORATORY CONTROL SAMPLE: 2203770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	236	94	90-110	

SAMPLE DUPLICATE: 2203771

Parameter	Units	92372269006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	506	494	2	5	

SAMPLE DUPLICATE: 2203772

Parameter	Units	92372305006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	59.0	89.0	41	5	D6

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QUALITY CONTROL DATA

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

QC Batch: 694 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 261511002, 261511004, 261511006, 261511008

METHOD BLANK: 5479 Matrix: Water
Associated Lab Samples: 261511002, 261511004, 261511006, 261511008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	02/09/18 06:09	
Sulfate	mg/L	ND	1.0	0.017	02/09/18 06:09	

LABORATORY CONTROL SAMPLE: 5480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Sulfate	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5481 5482

Parameter	Units	261511002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Chloride	mg/L	406	10	128	10	126	-2780	-2800	90-110	1	15	E,M1
Sulfate	mg/L	210	10	162	10	161	-478	-484	90-110	0	15	E,M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

Sample: KMW-04 **Lab ID: 261511001** Collected: 02/06/18 15:00 Received: 02/07/18 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.590 ± 0.183 (0.187) C:87% T:NA	pCi/L	03/01/18 19:19	13982-63-3	
Radium-228	EPA 9320	1.45 ± 0.635 (1.03) C:62% T:79%	pCi/L	02/22/18 14:33	15262-20-1	
Total Radium	Total Radium Calculation	2.04 ± 0.818 (1.22)	pCi/L	03/02/18 13:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

Sample: KMW-06 **Lab ID: 261511003** Collected: 02/06/18 16:30 Received: 02/07/18 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	3.28 ± 0.695 (0.321) C:86% T:NA	pCi/L	03/01/18 18:23	13982-63-3	
Radium-228	EPA 9320	5.58 ± 1.29 (0.967) C:65% T:76%	pCi/L	02/22/18 14:33	15262-20-1	
Total Radium	Total Radium Calculation	8.86 ± 1.99 (1.29)	pCi/L	03/02/18 13:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

Sample: KMW-05 **Lab ID: 261511005** Collected: 02/06/18 13:55 Received: 02/07/18 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.90 ± 0.517 (0.414) C:79% T:NA	pCi/L	03/01/18 18:24	13982-63-3	
Radium-228	EPA 9320	4.37 ± 1.04 (0.865) C:65% T:86%	pCi/L	02/22/18 14:34	15262-20-1	
Total Radium	Total Radium Calculation	6.27 ± 1.56 (1.28)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

Sample: KMW-07 **Lab ID: 261511007** Collected: 02/06/18 16:20 Received: 02/07/18 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	3.33 ± 0.731 (0.443) C:85% T:NA	pCi/L	03/01/18 18:25	13982-63-3	
Radium-228	EPA 9320	7.14 ± 1.56 (1.06) C:69% T:76%	pCi/L	02/22/18 14:34	15262-20-1	
Total Radium	Total Radium Calculation	10.5 ± 2.29 (1.50)	pCi/L	03/02/18 13:27	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

QC Batch: 289706

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 261511001, 261511003, 261511005, 261511007

METHOD BLANK: 1419136

Matrix: Water

Associated Lab Samples: 261511001, 261511003, 261511005, 261511007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.281 ± 0.133 (0.187) C:85% T:NA	pCi/L	03/01/18 19:19	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

QC Batch:	289609	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	261511001, 261511003, 261511005, 261511007		

METHOD BLANK:	1418575	Matrix:	Water
Associated Lab Samples:	261511001, 261511003, 261511005, 261511007		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0774 ± 0.364 (0.829) C:77% T:83%	pCi/L	02/22/18 14:33	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft Ash Ponds

Pace Project No.: 261511

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft Ash Ponds
Pace Project No.: 261511

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
261511002	KMW-04	EPA 3005A	911	EPA 6020B	1093
261511004	KMW-06	EPA 3005A	911	EPA 6020B	1093
261511006	KMW-05	EPA 3005A	911	EPA 6020B	1093
261511008	KMW-07	EPA 3005A	911	EPA 6020B	1093
261511001	KMW-04	EPA 9315	289706		
261511003	KMW-06	EPA 9315	289706		
261511005	KMW-05	EPA 9315	289706		
261511007	KMW-07	EPA 9315	289706		
261511001	KMW-04	EPA 9320	289609		
261511003	KMW-06	EPA 9320	289609		
261511005	KMW-05	EPA 9320	289609		
261511007	KMW-07	EPA 9320	289609		
261511001	KMW-04	Total Radium Calculation	289957		
261511003	KMW-06	Total Radium Calculation	289957		
261511005	KMW-05	Total Radium Calculation	289957		
261511007	KMW-07	Total Radium Calculation	289957		
261511002	KMW-04	SM 2320B	773		
261511004	KMW-06	SM 2320B	1019		
261511006	KMW-05	SM 2320B	1019		
261511008	KMW-07	SM 2320B	1019		
261511002	KMW-04	SM 2540C	397388		
261511004	KMW-06	SM 2540C	397388		
261511006	KMW-05	SM 2540C	397388		
261511008	KMW-07	SM 2540C	397388		
261511002	KMW-04	EPA 300.0	694		
261511004	KMW-06	EPA 300.0	694		
261511006	KMW-05	EPA 300.0	694		
261511008	KMW-07	EPA 300.0	694		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be cc

NO#: 261511



261511

Section A

Required Client Information:
 Company: Georgia Power - South-Central - Residuals
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Email: jbraham@southemco.com
 Phone: (404)506-7239 Fax

Report To: *[Signature]*
Copy To: *[Signature]*
Address: *Shelton Wilson, Trent Gardens*
Purchase Order #:
Project Name: Plant Kraft AP
Requested Due Date:

Invoice Information:
 Attention:
 Company Name:
 Address:
 State / Location: GA
 Pace Project Manager: belsy.mcdaniel@pacelabs.com
 Pace Profile #: 329

Section B

Required Project Information:
 Report To: *[Signature]*
 Copy To: *[Signature]*
 Address: *Shelton Wilson, Trent Gardens*
 Purchase Order #:
 Project Name: Plant Kraft AP
 Project #:

Section C

Requested Analysis Filtered (Y/N)

Residual Chlorine (Y/N)	
PAH 8270/SIM	
Carb Alk, Bicarb Alk, TDS, C	
Metals 6020 (As Only)	
Metals 6020 (As, Ca, Mg, K, N)	
Radium 226/228	
Analyses Test	
Other	
Methanol	
Na2S2O3	
NaOH	
HCl	
HNO3	
H2SO4	
Unpreserved	
# OF CONTAINERS	
SAMPLE TEMP AT COLLECTION	

ITEM #	MATRIX	CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	REQUESTED ANALYSIS FILTERED (Y/N)	RECEIVED BY / AFFILIATION	DATE	TIME	TEMP °C	RECEIVED ON	JOB (Y/N)	CUSTODY (Y/N)	SEALED COOLER (Y/N)	SAMPLE CONDITIONS	INTERC (Y/N)	
				START DATE	START TIME															END DATE
1	KMW-04	WT G	WT G	02/08/18	1500	4	H2SO4 Unpreserved	2												
2	KMW-06	WT G	WT G	02/08/18	1630	4	H2SO4 Unpreserved	2												
3	KMW-05	WT G	WT G	02/08/18	1355	4	H2SO4 Unpreserved	2												
4	KMW-07	WT G	WT G	02/08/18	1620	4	H2SO4 Unpreserved	2												
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS:
 MICHAEL PATRICKSON RESUME 02/08/18 1700
 Mcdanielman 2/7/18 0935

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: MICHAEL PATRICKSON FOREST HOWARD
 SIGNATURE OF SAMPLER: *[Signature]* DATE Signed: 02/06/18

Sample Condition Upon Receipt

Pace Analytical

Client Name: GIA Power

Project #

WO#: 261511

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 789630415393

PM: **BM** Due Date: **02/14/18**

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used THR-083 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temperature 1.3 Biological Tissue Is Frozen: Yes No

Date and Initials of person examining contents: 2/7/18 MR

Temp should be above freezing to 8°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>GIA</u>			
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

March 05, 2018

Lauren Petty
Southern Company Services, Inc.
42 Inverness Center Parkway
Birmingham, AL 35242

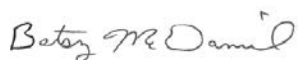
RE: Project: Plant Kraft AP
Pace Project No.: 261599

Dear Lauren Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on February 08, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kevin Stephenson, Resolute Environmental & Water
Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water
Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft AP

Pace Project No.: 261599

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Texas Certification #: T104704397-08-TX

Virginia Certification #: 460204

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Plant Kraft AP

Pace Project No.: 261599

Lab ID	Sample ID	Matrix	Date Collected	Date Received
261599001	KMW-02	Water	02/07/18 14:20	02/08/18 10:35
261599002	KMW-02	Water	02/07/18 14:20	02/08/18 10:35
261599003	KMW-01	Water	02/07/18 10:00	02/08/18 10:35
261599004	KMW-01	Water	02/07/18 10:00	02/08/18 10:35
261599005	EQBL020718	Water	02/07/18 10:30	02/08/18 10:35
261599006	EQBL020718	Water	02/07/18 10:30	02/08/18 10:35
261599007	FBL020718	Water	02/07/18 10:45	02/08/18 10:35
261599008	FBL020718	Water	02/07/18 10:45	02/08/18 10:35
261599009	Dup-1	Water	02/07/18 00:00	02/08/18 10:35
261599010	Dup-1	Water	02/07/18 00:00	02/08/18 10:35

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SAMPLE ANALYTE COUNT

Project: Plant Kraft AP
Pace Project No.: 261599

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
261599001	KMW-02	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261599002	KMW-02	EPA 6020B	KLH	1	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261599003	KMW-01	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261599004	KMW-01	EPA 6020B	KLH	1	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261599005	EQBL020718	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261599006	EQBL020718	EPA 6020B	KLH	1	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261599007	FBL020718	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261599008	FBL020718	EPA 6020B	KLH	1	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA
261599009	Dup-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
261599010	Dup-1	EPA 6020B	KLH	1	PASI-GA
		SM 2320B	JAD	2	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	2	PASI-GA

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261599

Sample: KMW-02		Lab ID: 261599002		Collected: 02/07/18 14:20	Received: 02/08/18 10:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	27.5	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 15:06	7440-38-2	
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Bicarbonate (CaCO ₃)	22.0	mg/L	20.0	20.0	1		02/09/18 12:24		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	20.0	1		02/09/18 12:24		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	366	mg/L	50.0	50.0	1		02/09/18 19:38		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	139	mg/L	2.5	0.24	10		02/22/18 15:51	16887-00-6	M1
Sulfate	78.7	mg/L	10.0	0.17	10		02/22/18 15:51	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261599

Sample: KMW-01		Lab ID: 261599004		Collected: 02/07/18 10:00	Received: 02/08/18 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	3.2J	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 15:17	7440-38-2		
2320B Alkalinity Low Level		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/14/18 12:12			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/14/18 12:12			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	3420	mg/L	250	250	1		02/09/18 19:38			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	1720	mg/L	25.0	2.4	100		02/22/18 16:11	16887-00-6	M1	
Sulfate	319J	mg/L	100	1.7	100		02/22/18 16:11	14808-79-8	M1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261599

Sample: EQBL020718		Lab ID: 261599006		Collected: 02/07/18 10:30	Received: 02/08/18 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 15:29	7440-38-2		
2320B Alkalinity Low Level		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	1.0	mg/L	1.0	1.0	1		02/14/18 12:14			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/14/18 12:14			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/09/18 19:38			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		02/12/18 16:31	16887-00-6		
Sulfate	ND	mg/L	1.0	0.017	1		02/12/18 16:31	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261599

Sample: FBL020718		Lab ID: 261599008		Collected: 02/07/18 10:45	Received: 02/08/18 10:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 15:35	7440-38-2		
2320B Alkalinity Low Level		Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/14/18 12:18			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/14/18 12:18			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/09/18 19:38			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		02/12/18 16:51	16887-00-6		
Sulfate	ND	mg/L	1.0	0.017	1		02/12/18 16:51	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft AP

Pace Project No.: 261599

Sample: Dup-1		Lab ID: 261599010		Collected: 02/07/18 00:00	Received: 02/08/18 10:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	3.1J	ug/L	5.0	0.52	1	02/15/18 08:13	02/15/18 15:40	7440-38-2	
2320B Alkalinity Low Level		Analytical Method: SM 2320B							
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/14/18 12:22		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	1.0	1.0	1		02/14/18 12:22		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	3080	mg/L	62.5	62.5	1		02/09/18 19:38		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	1720	mg/L	25.0	2.4	100		02/22/18 16:32	16887-00-6	
Sulfate	318J	mg/L	100	1.7	100		02/22/18 16:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft AP

Pace Project No.: 261599

QC Batch: 911 Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A Analysis Description: 6020B MET

Associated Lab Samples: 261599002, 261599004, 261599006, 261599008, 261599010

METHOD BLANK: 6438 Matrix: Water

Associated Lab Samples: 261599002, 261599004, 261599006, 261599008, 261599010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	0.52	02/15/18 13:46	

LABORATORY CONTROL SAMPLE: 6439

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	100	99.6	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6550 6551

Parameter	Units	261658002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	100	100	98.5	100	98	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Kraft AP

Pace Project No.: 261599

QC Batch: 397509

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 261599002, 261599004, 261599006, 261599008, 261599010

METHOD BLANK: 2204742

Matrix: Water

Associated Lab Samples: 261599002, 261599004, 261599006, 261599008, 261599010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/09/18 19:38	

LABORATORY CONTROL SAMPLE: 2204743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	238	95	90-110	

SAMPLE DUPLICATE: 2204744

Parameter	Units	92372509001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	100	94.0	6	5	D6

SAMPLE DUPLICATE: 2204745

Parameter	Units	92372532005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	170000 ug/L	167	2	5	

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QUALITY CONTROL DATA

Project: Plant Kraft AP
Pace Project No.: 261599

QC Batch: 859 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 261599002, 261599004, 261599006, 261599008, 261599010

METHOD BLANK: 6241 Matrix: Water
Associated Lab Samples: 261599002, 261599004, 261599006, 261599008, 261599010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	02/12/18 13:45	
Sulfate	mg/L	ND	1.0	0.017	02/12/18 13:45	

LABORATORY CONTROL SAMPLE: 6242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.9	99	90-110	
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6243 6244

Parameter	Units	261599002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	139	10	10	90.7	90.7	-484	-483	90-110	0	15	E,M1
Sulfate	mg/L	78.7	10	10	76.2	76.3	-25	-24	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 6245

Parameter	Units	261599004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1720	10	318	-14000	90-110	E,M1
Sulfate	mg/L	319J	10	205	-1140	90-110	E,M1

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261599

Sample: KMW-02 **Lab ID: 261599001** Collected: 02/07/18 14:20 Received: 02/08/18 10:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.51 ± 0.508 (0.401) C:75% T:NA	pCi/L	02/16/18 08:16	13982-63-3	
Radium-228	EPA 9320	1.21 ± 0.536 (0.918) C:77% T:84%	pCi/L	02/23/18 16:31	15262-20-1	
Total Radium	Total Radium Calculation	2.72 ± 1.04 (1.32)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261599

Sample: KMW-01 **Lab ID: 261599003** Collected: 02/07/18 10:00 Received: 02/08/18 10:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.27 ± 0.474 (0.172) C:86% T:NA	pCi/L	02/22/18 08:39	13982-63-3	
Radium-228	EPA 9320	8.02 ± 1.64 (0.754) C:79% T:82%	pCi/L	02/23/18 16:29	15262-20-1	
Total Radium	Total Radium Calculation	10.3 ± 2.11 (0.926)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261599

Sample: EQBL020718 **Lab ID: 261599005** Collected: 02/07/18 10:30 Received: 02/08/18 10:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.304 ± 0.242 (0.408) C:86% T:NA	pCi/L	02/16/18 08:33	13982-63-3	
Radium-228	EPA 9320	0.250 ± 0.328 (0.696) C:70% T:77%	pCi/L	02/23/18 15:01	15262-20-1	
Total Radium	Total Radium Calculation	0.554 ± 0.570 (1.10)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261599

Sample: FBL020718 **Lab ID: 261599007** Collected: 02/07/18 10:45 Received: 02/08/18 10:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.204 ± 0.259 (0.548) C:71% T:NA	pCi/L	02/16/18 08:35	13982-63-3	
Radium-228	EPA 9320	0.243 ± 0.306 (0.645) C:72% T:83%	pCi/L	02/23/18 15:01	15262-20-1	
Total Radium	Total Radium Calculation	0.447 ± 0.565 (1.19)	pCi/L	03/02/18 13:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261599

Sample: Dup-1 **Lab ID: 261599009** Collected: 02/07/18 00:00 Received: 02/08/18 10:35 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Sample collection dates and times were not present on the sample containers.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.00 ± 0.431 (0.145) C:88% T:NA	pCi/L	02/22/18 08:40	13982-63-3	
Radium-228	EPA 9320	10.4 ± 2.11 (0.866) C:71% T:72%	pCi/L	02/23/18 15:01	15262-20-1	
Total Radium	Total Radium Calculation	12.4 ± 2.54 (1.01)	pCi/L	03/02/18 13:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261599

QC Batch: 288045

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 261599001, 261599003, 261599005, 261599007, 261599009

METHOD BLANK: 1411778

Matrix: Water

Associated Lab Samples: 261599001, 261599003, 261599005, 261599007, 261599009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.233 ± 0.202 (0.346) C:86% T:NA	pCi/L	02/16/18 08:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft AP

Pace Project No.: 261599

QC Batch: 288055

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 261599001, 261599003, 261599005, 261599007, 261599009

METHOD BLANK: 1411785

Matrix: Water

Associated Lab Samples: 261599001, 261599003, 261599005, 261599007, 261599009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.738 ± 0.410 (0.739) C:78% T:78%	pCi/L	02/23/18 13:19	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Plant Kraft AP
Pace Project No.: 261599

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville
PASI-GA Pace Analytical Services - Atlanta, GA
PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
E Analyte concentration exceeded the calibration range. The reported result is estimated.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft AP
Pace Project No.: 261599

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
261599002	KMW-02	EPA 3005A	911	EPA 6020B	1093
261599004	KMW-01	EPA 3005A	911	EPA 6020B	1093
261599006	EQBL020718	EPA 3005A	911	EPA 6020B	1093
261599008	FBL020718	EPA 3005A	911	EPA 6020B	1093
261599010	Dup-1	EPA 3005A	911	EPA 6020B	1093
261599001	KMW-02	EPA 9315	288045		
261599003	KMW-01	EPA 9315	288045		
261599005	EQBL020718	EPA 9315	288045		
261599007	FBL020718	EPA 9315	288045		
261599009	Dup-1	EPA 9315	288045		
261599001	KMW-02	EPA 9320	288055		
261599003	KMW-01	EPA 9320	288055		
261599005	EQBL020718	EPA 9320	288055		
261599007	FBL020718	EPA 9320	288055		
261599009	Dup-1	EPA 9320	288055		
261599001	KMW-02	Total Radium Calculation	289957		
261599003	KMW-01	Total Radium Calculation	289957		
261599005	EQBL020718	Total Radium Calculation	289957		
261599007	FBL020718	Total Radium Calculation	289957		
261599009	Dup-1	Total Radium Calculation	289957		
261599002	KMW-02	SM 2320B	773		
261599004	KMW-01	SM 2320B	1019		
261599006	EQBL020718	SM 2320B	1019		
261599008	FBL020718	SM 2320B	1019		
261599010	Dup-1	SM 2320B	1019		
261599002	KMW-02	SM 2540C	397509		
261599004	KMW-01	SM 2540C	397509		
261599006	EQBL020718	SM 2540C	397509		
261599008	FBL020718	SM 2540C	397509		
261599010	Dup-1	SM 2540C	397509		
261599002	KMW-02	EPA 300.0	859		
261599004	KMW-01	EPA 300.0	859		
261599006	EQBL020718	EPA 300.0	859		
261599008	FBL020718	EPA 300.0	859		
261599010	Dup-1	EPA 300.0	859		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Email: jbraham@southernco.com
 Phone: (404)506-7239
 Requested Due Date:

Section B
 Required Project Information:
 Report To: Jiju Abraham
 Copy To: [Signature]
 Company Name: [Signature]
 Address: [Signature]
 Pace Order #: [Signature]
 Project Name: Plant Kraft AP
 Pace Project Manager: betsy.medaniel@pacelabs.com
 Pace Profile #: 329

Section C
 Invoice Information:
 Attention: [Signature]
 Regulatory Agency: [Signature]
 State / Location: GA

Section D
 Matrix Code (see valid codes to left)
 MATRIX CODE
 Drinking Water DW
 Water WW
 Waste Water P
 Product Solid
 Oil WIP
 Air Air
 Other Other
 Tissue Tissue

ITEM #	MATRIX CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	PRESERVATIVES												Antibyses Test Y/N	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)
		START DATE TIME	END DATE TIME				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Unpreserved	# OF CONTAINERS	Metal 6020 (As, Cd, Cr, Cu, Ni, Pb, Se)	Metal 6020 (As only)	Co Pb, B, Bi, Carb, Alk, TDS, C			
1	KMN-02	2/18/18	11:20	G	MC	5		X	X									1/2			
2	KMN-01	2/18/18	10:00	G	MC	6		X	X									3/4			
3	FOR-0207HB	2/18/18	10:10	G	MC	5		X	X									5/6			
4	FA-0207HB	2/18/18	10:15	G	MC	5		X	X									7/8			
5	DUP-1	2/18/18	11:00	G	MC	5		X	X									9/10			

NO#: 261599

RELEASUED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	TEMP in C	Received on	Job (Y/N)	Custody Seal (Y/N)	Samples (Y/N)	Inter (Y/N)
M. Rahman	2/18/18	10:35	[Signature]				0.5	2/18/18				

SAMPLER NAME AND SIGNATURE: [Signature]
 PRINT Name of SAMPLER: [Signature]
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 2/18/18

Sample Condition Upon Receipt



Client Name: GIA Power

Project #

WO# : 261599

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 7896 4633 2278

PM: BH Due Date: 02/15/18

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

CLIENT: GAPower

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used THR 83 Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.5

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 2/8/18 BH

Temp should be above freezing to 8°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Face Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>GIAW</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp incorrect containers)

June 06, 2018

Lauren Petty
Southern Company Services, Inc.
42 Inverness Center Parkway
Birmingham, AL 35242

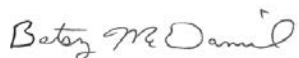
RE: Project: Plant Kraft
Pace Project No.: 264776

Dear Lauren Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on May 08, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kevin Stephenson, Resolute Environmental & Water
Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water
Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft
Pace Project No.: 264776

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft

Pace Project No.: 264776

Lab ID	Sample ID	Matrix	Date Collected	Date Received
264776001	KMW-1	Water	05/07/18 14:40	05/08/18 12:33
264776002	KMW-12	Water	05/07/18 14:52	05/08/18 12:33

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft

Pace Project No.: 264776

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
264776001	KMW-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
264776002	KMW-12	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 264776

Sample: KMW-1 **Lab ID: 264776001** Collected: 05/07/18 14:40 Received: 05/08/18 12:33 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.41 ± 0.648 (0.528) C:93% T:NA	pCi/L	05/29/18 08:31	13982-63-3	
Radium-228	EPA 9320	9.85 ± 2.03 (1.09) C:83% T:78%	pCi/L	05/28/18 21:28	15262-20-1	
Total Radium	Total Radium Calculation	12.3 ± 2.68 (1.62)	pCi/L	06/05/18 14:09	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 264776

Sample: KMW-12 **Lab ID: 264776002** Collected: 05/07/18 14:52 Received: 05/08/18 12:33 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.81 ± 0.736 (0.572) C:83% T:NA	pCi/L	05/29/18 08:40	13982-63-3	
Radium-228	EPA 9320	1.43 ± 0.606 (0.983) C:77% T:87%	pCi/L	05/28/18 21:28	15262-20-1	
Total Radium	Total Radium Calculation	4.24 ± 1.34 (1.56)	pCi/L	06/05/18 14:09	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 264776

QC Batch: 299606

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 264776001, 264776002

METHOD BLANK: 1466605

Matrix: Water

Associated Lab Samples: 264776001, 264776002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.175 ± 0.204 (0.419) C:94% T:NA	pCi/L	05/29/18 08:14	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft

Pace Project No.: 264776

QC Batch: 299164

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 264776001, 264776002

METHOD BLANK: 1464803

Matrix: Water

Associated Lab Samples: 264776001, 264776002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.569 ± 0.499 (0.997) C:84% T:81%	pCi/L	05/28/18 21:26	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft

Pace Project No.: 264776

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft

Pace Project No.: 264776

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
264776001	KMW-1	EPA 9315	299606		
264776002	KMW-12	EPA 9315	299606		
264776001	KMW-1	EPA 9320	299164		
264776002	KMW-12	EPA 9320	299164		
264776001	KMW-1	Total Radium Calculation	301033		
264776002	KMW-12	Total Radium Calculation	301033		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 264776

Client Name: Georgia Power

PM: BM Due Date: 06/06/18
CLIENT: GAPower

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used TAHO82 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 10.3°C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 5/8/18 C24

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

February 08, 2017

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: AAB0024 GA Power - Plant Kraft
Pace Project No.: 92328259

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Melissa Sybert
melissa.sybert@pacelabs.com
Project Manager

Enclosures

cc: Betsy McDaniel, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AAB0024 GA Power - Plant Kraft

Pace Project No.: 92328259

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AAB0024 GA Power - Plant Kraft

Pace Project No.: 92328259

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92328259001	MW-15	Water	01/31/17 15:52	02/01/17 09:25
92328259002	MW-15D	Water	01/31/17 14:21	02/01/17 09:25
92328259003	DUP-2	Water	01/31/17 00:00	02/01/17 09:25
92328259004	EQBL-2	Water	01/31/17 18:20	02/01/17 09:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AAB0024 GA Power - Plant Kraft

Pace Project No.: 92328259

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92328259001	MW-15	EPA 8270 by SIM	BPJ	7	PASI-C
92328259002	MW-15D	EPA 8270 by SIM	BPJ	7	PASI-C
92328259003	DUP-2	EPA 8270 by SIM	BPJ	7	PASI-C
92328259004	EQBL-2	EPA 8270 by SIM	BPJ	7	PASI-C

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: AAB0024 GA Power - Plant Kraft

Pace Project No.: 92328259

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92328259001	MW-15					
EPA 8270 by SIM	Benzo(a)anthracene	0.44	ug/L	0.10	02/07/17 10:27	R1
92328259002	MW-15D					
EPA 8270 by SIM	Benzo(a)anthracene	1.2	ug/L	0.10	02/07/17 11:28	
EPA 8270 by SIM	Benzo(a)pyrene	0.24	ug/L	0.20	02/07/17 11:28	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.43	ug/L	0.20	02/07/17 11:28	
92328259003	DUP-2					
EPA 8270 by SIM	Benzo(a)anthracene	0.45	ug/L	0.10	02/07/17 11:48	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AAB0024 GA Power - Plant Kraft

Pace Project No.: 92328259

Sample: MW-15 Lab ID: 92328259001 Collected: 01/31/17 15:52 Received: 02/01/17 09:25 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM 3510 Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Benzo(a)anthracene	0.44	ug/L	0.10	0.10	1	02/02/17 09:57	02/07/17 10:27	56-55-3	R1
Benzo(a)pyrene	ND	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 10:27	50-32-8	R1
Benzo(b)fluoranthene	ND	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 10:27	205-99-2	R1
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 10:27	193-39-5	
Surrogates									
Nitrobenzene-d5 (S)	90	%	30-150		1	02/02/17 09:57	02/07/17 10:27	4165-60-0	
2-Fluorobiphenyl (S)	72	%	30-150		1	02/02/17 09:57	02/07/17 10:27	321-60-8	
Terphenyl-d14 (S)	50	%	30-150		1	02/02/17 09:57	02/07/17 10:27	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AAB0024 GA Power - Plant Kraft

Pace Project No.: 92328259

Sample: MW-15D		Lab ID: 92328259002		Collected: 01/31/17 14:21		Received: 02/01/17 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Benzo(a)anthracene	1.2	ug/L	0.10	0.10	1	02/02/17 09:57	02/07/17 11:28	56-55-3	
Benzo(a)pyrene	0.24	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 11:28	50-32-8	
Benzo(b)fluoranthene	0.43	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 11:28	205-99-2	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 11:28	193-39-5	
Surrogates									
Nitrobenzene-d5 (S)	92	%	30-150		1	02/02/17 09:57	02/07/17 11:28	4165-60-0	
2-Fluorobiphenyl (S)	65	%	30-150		1	02/02/17 09:57	02/07/17 11:28	321-60-8	
Terphenyl-d14 (S)	41	%	30-150		1	02/02/17 09:57	02/07/17 11:28	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AAB0024 GA Power - Plant Kraft

Pace Project No.: 92328259

Sample: DUP-2 **Lab ID: 92328259003** Collected: 01/31/17 00:00 Received: 02/01/17 09:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Benzo(a)anthracene	0.45	ug/L	0.10	0.10	1	02/02/17 09:57	02/07/17 11:48	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 11:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 11:48	205-99-2	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 11:48	193-39-5	
Surrogates									
Nitrobenzene-d5 (S)	92	%	30-150		1	02/02/17 09:57	02/07/17 11:48	4165-60-0	
2-Fluorobiphenyl (S)	68	%	30-150		1	02/02/17 09:57	02/07/17 11:48	321-60-8	
Terphenyl-d14 (S)	44	%	30-150		1	02/02/17 09:57	02/07/17 11:48	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AAB0024 GA Power - Plant Kraft

Pace Project No.: 92328259

Sample: EQBL-2 **Lab ID: 92328259004** Collected: 01/31/17 18:20 Received: 02/01/17 09:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	0.10	0.10	1	02/02/17 09:57	02/07/17 12:09	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 12:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 12:09	205-99-2	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	0.20	1	02/02/17 09:57	02/07/17 12:09	193-39-5	
Surrogates									
Nitrobenzene-d5 (S)	104	%	30-150		1	02/02/17 09:57	02/07/17 12:09	4165-60-0	
2-Fluorobiphenyl (S)	79	%	30-150		1	02/02/17 09:57	02/07/17 12:09	321-60-8	
Terphenyl-d14 (S)	99	%	30-150		1	02/02/17 09:57	02/07/17 12:09	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AAB0024 GA Power - Plant Kraft

Project No.: 92328259

QC Batch: 346692 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water CPAH by SIM MSSV 3510
 Associated Lab Samples: 92328259001, 92328259002, 92328259003, 92328259004

METHOD BLANK: 1923128 Matrix: Water
 Associated Lab Samples: 92328259001, 92328259002, 92328259003, 92328259004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzo(a)anthracene	ug/L	ND	0.10	0.10	02/07/17 09:46	
Benzo(a)pyrene	ug/L	ND	0.20	0.20	02/07/17 09:46	
Benzo(b)fluoranthene	ug/L	ND	0.20	0.20	02/07/17 09:46	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.20	0.20	02/07/17 09:46	
2-Fluorobiphenyl (S)	%	81	30-150		02/07/17 09:46	
Nitrobenzene-d5 (S)	%	109	30-150		02/07/17 09:46	
Terphenyl-d14 (S)	%	104	30-150		02/07/17 09:46	

LABORATORY CONTROL SAMPLE: 1923129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)anthracene	ug/L	1	0.84	84	51-134	
Benzo(a)pyrene	ug/L	1	0.80	80	58-133	
Benzo(b)fluoranthene	ug/L	1	0.85	85	42-143	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.89	89	46-121	
2-Fluorobiphenyl (S)	%			89	30-150	
Nitrobenzene-d5 (S)	%			119	30-150	
Terphenyl-d14 (S)	%			111	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1923130 1923131

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92328259001 Result	Spike Conc.	Spike Conc.	MS Result						
Benzo(a)anthracene	ug/L	0.44	2	2	1.9	0.89	75	23	18-104	74	30 R1
Benzo(a)pyrene	ug/L	ND	2	2	1.3	0.53	62	23	14-121	85	30 R1
Benzo(b)fluoranthene	ug/L	ND	2	2	1.3	0.56	61	23	11-116	82	30 R1
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	0.73	ND	36	14	10-120		30
2-Fluorobiphenyl (S)	%						87	39	30-150		
Nitrobenzene-d5 (S)	%						3	2	30-150		S0
Terphenyl-d14 (S)	%						48	20	30-150		S0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AAB0024 GA Power - Plant Kraft

Pace Project No.: 92328259

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AAB0024 GA Power - Plant Kraft

Pace Project No.: 92328259

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92328259001	MW-15	EPA 3510	346692	EPA 8270 by SIM	347050
92328259002	MW-15D	EPA 3510	346692	EPA 8270 by SIM	347050
92328259003	DUP-2	EPA 3510	346692	EPA 8270 by SIM	347050
92328259004	EQBL-2	EPA 3510	346692	EPA 8270 by SIM	347050

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood **Huntersville** Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name: **GA Power Company**

Project #: **WO# : 92328259**



Courier: Commercial Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 02/01/17 HFW

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Thermometer: IR Gun ID: T1603 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Correction Factor: 33 Cooler Temp Corrected (°C): 33 Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C
 USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
 Comments/Sample Discrepancy: _____

Project Manager SCURF Review: MS Date: 2/1/17
 Project Manager SRF Review: MS Date: 2/1/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
 **Bottom half of box is to list number of bottles

Project #

WO# : 92328259
 PM: MSS Due Date: 02/08/17
 CLIENT: 93-PaceATL

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN	
1	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

August 11, 2017

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: AAH0247 GEORGIA POWER-CCR
Pace Project No.: 92350388

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on August 05, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
1(704)875-9092
Project Manager

Enclosures

cc: Betsy McDaniel, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AAH0247 GEORGIA POWER-CCR

Pace Project No.: 92350388

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: AAH0247 GEORGIA POWER-CCR

Pace Project No.: 92350388

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92350388001	MW-15D(R) MS/MSD	Water	08/04/17 13:00	08/05/17 09:10
92350388002	Dup-01	Water	08/04/17 00:00	08/05/17 09:10
92350388003	EQBL-080417	Water	08/04/17 14:05	08/05/17 09:10

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SAMPLE ANALYTE COUNT

Project: AAH0247 GEORGIA POWER-CCR

Pace Project No.: 92350388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92350388001	MW-15D(R) MS/MSD	EPA 8270 by SIM	RES	7	PASI-C
92350388002	Dup-01	EPA 8270 by SIM	RES	7	PASI-C
92350388003	EQBL-080417	EPA 8270 by SIM	RES	7	PASI-C

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SUMMARY OF DETECTION

Project: AAH0247 GEORGIA POWER-CCR

Pace Project No.: 92350388

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92350388001	MW-15D(R) MS/MSD					
EPA 8270 by SIM	Benzo(a)anthracene	0.00023	mg/L	0.00010	08/10/17 11:31	
92350388002	Dup-01					
EPA 8270 by SIM	Benzo(a)anthracene	0.00022	mg/L	0.00010	08/10/17 12:40	

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ANALYTICAL RESULTS

Project: AAH0247 GEORGIA POWER-CCR

Pace Project No.: 92350388

Sample: MW-15D(R) MS/MSD Lab ID: 92350388001 Collected: 08/04/17 13:00 Received: 08/05/17 09:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM 3510 Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Benzo(a)anthracene	0.00023	mg/L	0.00010	0.00010	1	08/08/17 15:00	08/10/17 11:31	56-55-3	
Benzo(a)pyrene	ND	mg/L	0.00020	0.00020	1	08/08/17 15:00	08/10/17 11:31	50-32-8	R1
Benzo(b)fluoranthene	ND	mg/L	0.00020	0.00020	1	08/08/17 15:00	08/10/17 11:31	205-99-2	R1
Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00020	0.00020	1	08/08/17 15:00	08/10/17 11:31	193-39-5	M1
Surrogates									
Nitrobenzene-d5 (S)	98	%	30-150		1	08/08/17 15:00	08/10/17 11:31	4165-60-0	
2-Fluorobiphenyl (S)	88	%	30-150		1	08/08/17 15:00	08/10/17 11:31	321-60-8	
Terphenyl-d14 (S)	39	%	30-150		1	08/08/17 15:00	08/10/17 11:31	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AAH0247 GEORGIA POWER-CCR

Pace Project No.: 92350388

Sample: Dup-01		Lab ID: 92350388002		Collected: 08/04/17 00:00		Received: 08/05/17 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM 3510		Analytical Method: EPA 8270 by SIM		Preparation Method: EPA 3510					
Benzo(a)anthracene	0.00022	mg/L	0.00010	0.00010	1	08/08/17 15:00	08/10/17 12:40	56-55-3	
Benzo(a)pyrene	ND	mg/L	0.00020	0.00020	1	08/08/17 15:00	08/10/17 12:40	50-32-8	
Benzo(b)fluoranthene	ND	mg/L	0.00020	0.00020	1	08/08/17 15:00	08/10/17 12:40	205-99-2	
Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00020	0.00020	1	08/08/17 15:00	08/10/17 12:40	193-39-5	
Surrogates									
Nitrobenzene-d5 (S)	90	%	30-150		1	08/08/17 15:00	08/10/17 12:40	4165-60-0	
2-Fluorobiphenyl (S)	76	%	30-150		1	08/08/17 15:00	08/10/17 12:40	321-60-8	
Terphenyl-d14 (S)	35	%	30-150		1	08/08/17 15:00	08/10/17 12:40	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AAH0247 GEORGIA POWER-CCR

Pace Project No.: 92350388

Sample: EQBL-080417 **Lab ID: 92350388003** Collected: 08/04/17 14:05 Received: 08/05/17 09:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	0.10	0.10	1	08/08/17 15:00	08/10/17 13:03	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	0.20	1	08/08/17 15:00	08/10/17 13:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.20	0.20	1	08/08/17 15:00	08/10/17 13:03	205-99-2	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	0.20	1	08/08/17 15:00	08/10/17 13:03	193-39-5	
Surrogates									
Nitrobenzene-d5 (S)	113	%	30-150		1	08/08/17 15:00	08/10/17 13:03	4165-60-0	
2-Fluorobiphenyl (S)	116	%	30-150		1	08/08/17 15:00	08/10/17 13:03	321-60-8	
Terphenyl-d14 (S)	116	%	30-150		1	08/08/17 15:00	08/10/17 13:03	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AAH0247 GEORGIA POWER-CCR
Project No.: 92350388

QC Batch: 372385 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water CPAH by SIM MSSV 3510
Associated Lab Samples: 92350388001, 92350388002, 92350388003

METHOD BLANK: 2063012 Matrix: Water
Associated Lab Samples: 92350388001, 92350388002, 92350388003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzo(a)anthracene	mg/L	ND	0.00010	0.00010	08/10/17 09:36	
Benzo(a)pyrene	mg/L	ND	0.00020	0.00020	08/10/17 09:36	
Benzo(b)fluoranthene	mg/L	ND	0.00020	0.00020	08/10/17 09:36	
Indeno(1,2,3-cd)pyrene	mg/L	ND	0.00020	0.00020	08/10/17 09:36	
2-Fluorobiphenyl (S)	%	110	30-150		08/10/17 09:36	
Nitrobenzene-d5 (S)	%	107	30-150		08/10/17 09:36	
Terphenyl-d14 (S)	%	113	30-150		08/10/17 09:36	

LABORATORY CONTROL SAMPLE: 2063013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)anthracene	mg/L	.001	0.00093	93	51-134	
Benzo(a)pyrene	mg/L	.001	0.00084	84	58-133	
Benzo(b)fluoranthene	mg/L	.001	0.00094	94	42-143	
Indeno(1,2,3-cd)pyrene	mg/L	.001	0.00076	76	46-121	
2-Fluorobiphenyl (S)	%			115	30-150	
Nitrobenzene-d5 (S)	%			115	30-150	
Terphenyl-d14 (S)	%			116	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2063014 2063015

Parameter	Units	2063014		2063015		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Benzo(a)anthracene	mg/L	0.00023	.002	.002	0.0016	0.0015	69	62	18-104	9	30
Benzo(a)pyrene	mg/L	ND	.002	.002	0.00061	0.00045	30	22	14-121	31	30 R1
Benzo(b)fluoranthene	mg/L	ND	.002	.002	0.00073	0.00049	36	24	11-116	39	30 R1
Indeno(1,2,3-cd)pyrene	mg/L	ND	.002	.002	ND	ND	9	7	10-120		30 M1
2-Fluorobiphenyl (S)	%						96	105	30-150		
Nitrobenzene-d5 (S)	%						99	107	30-150		
Terphenyl-d14 (S)	%						44	36	30-150		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AAH0247 GEORGIA POWER-CCR

Pace Project No.: 92350388

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AAH0247 GEORGIA POWER-CCR

Pace Project No.: 92350388

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92350388001	MW-15D(R) MS/MSD	EPA 3510	372385	EPA 8270 by SIM	372728
92350388002	Dup-01	EPA 3510	372385	EPA 8270 by SIM	372728
92350388003	EQBL-080417	EPA 3510	372385	EPA 8270 by SIM	372728

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO# : 92350388



Courier: Fed Ex URS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: Jew 8/17/17

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: T1701 Type of Ice: Wet Blue None

Correction Factor: 0.0C Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<u>WT</u>	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____

Comments/Sample Discrepancy: _____

Project Manager SCURF Review: JJ

Date: 8/8/17

Project Manager SRF Review: JJ

Date: 8/8/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: July 25, 2017
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.03

Issuing Authority:
Pace Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

**Bottom half of box is to list number of bottles

Project # **WO# : 92350388**

PM: KRG

Due Date: 08/14/17

CLIENT: 93-PaceATL

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9:3-9:7)	Cubitainer	V5GU-20 mL Scintillation vials (N/A)	GN	
1										6																		
2										2																		
3										2																		
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Chain of Custody



Workorder: AAH0247 Workorder Name: Plant Kraft Owner Received Date: 8/7/2017 Results Requested By: 8/16/2017
 Report To: Betsy McDaniel Subcontract To: ATTN: Bonnie Vang
 Pace Analytical Atlanta Pace- Asheville, NC
 110 Technology Parkway 2225 Riverside Drive
 Peachtree Corners, GA 30092 Asheville, NC
 Phone (770)-734-4200 TELE:704-977-0938

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		BNA 8270 SIM		Requested Analysis		LAB USE ONLY
1	MW-15DR	G	8/4/2017 13:00	AAH0247-01	GW	6		X				001
2	Dup-01	G	8/4/2017 0:00	AAH0247-02	GW	2		X				002
3	FQBL080417	G	8/4/2017 14:05	AAH0247-03	W	2		X				003
4												
5												
6												
7												
8												
9												
10												
Transfers		Released By	Date/Time	Received By	Date/Time	Comments						
1						Benzo(a)anthracene to 0.0001 ppm						
2						Benzo(a)pyrene, Benzo(b)fluoranthene, and Indeno(1,2,3-cd) to 0.0002 ppm						
3												

Cooler Temperature on Receipt _____ °C Custody Seal Y or N _____ Received on Ice Y or N _____ Sample Intact Y or N _____

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Friday, June 17, 2016 11:01:34 AM

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

CHAIN OF CUSTODY RECORD



Pace Analytical Services, LLC - Atlanta GA
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: 1 OF 1

CLIENT NAME: GEORGIA POWER COMPANY				CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:				ANALYSIS REQUESTED			
241 RALPH MCGILL BLVD SE 810185 ATLANTA, GA 30338				STEPHEN WILSON/RESOURCES/ENRON				CONTAINER TYPE: A			
REPORT TO: MARIA PADILLA LAVREN DISTRICT				CC: STEPHEN WILSON/RESOURCES/ENRON				PRESERVATION: 7			
REQUESTED COMPLETION DATE: STANDARD 7/17				PO #: EGS 911				# of CONTAINERS: 6			
PROJECT NAME/STATE: PLANT KRATT NORTHERN AREA HRRP SITE				PROJECT #:				CONTAINER TYPE: A			
Collection DATE				Collection TIME				MATRIX CODE*			
08/04/17				1300				GW			
08/04/17				---				GW			
08/04/17				1300				W			
08/04/17				1405				GW			
DATE/TIME				SAMPLE IDENTIFICATION				CONTAINER TYPE: A			
08/04/17 1515				MW-15 DCR (MS/MSD)				PRESERVATION: 7			
08/04/17 9:10				DUP-01				PRESERVATION: 7			
08/04/17				EABL-080417				PRESERVATION: 7			
RELINQUISHED BY:				BENZO (A) ANTHRACENE EPA 8270-SIM				PRESERVATION: 7			
RELINQUISHED BY:				BENZO (A) PYRENE EPA 8270-SIM				PRESERVATION: 7			
RELINQUISHED BY:				BENZO (B) FLUORANTHENE EPA 8270-SIM				PRESERVATION: 7			
RELINQUISHED BY:				INDENO (1,2,3-CD) PYRENE EPA 8270-SIM				PRESERVATION: 7			
DATE/TIME: 08/04/17 1515				DATE/TIME: 08/04/17				DATE/TIME: 08/04/17			
DATE/TIME: 8-5-17 9:10				DATE/TIME: 8-5-17 9:10				DATE/TIME: 8-5-17 9:10			
SAMPLE SHIPPED VIA: USPS				COURIER				CLIENT OTHER FS			
Custody Seal: Intact				Broken				Not Present N/A			
LAB #:				FOR LAB USE ONLY				REMARKS/ADDITIONAL INFORMATION			
Entered into LIMS:				Tracking #:				1 COOLER 92350588-001			
pH checked: Yes				No NA				Ice: Yes No NA			
Temperature: Min:				Max:				Matrix Codes:			
Temperature: Min:				Max:				DW - DRINKING WATER			
Temperature: Min:				Max:				WW - WASTEWATER			
Temperature: Min:				Max:				GW - GROUNDWATER			
Temperature: Min:				Max:				SW - SURFACE WATER			
Temperature: Min:				Max:				ST - STORM WATER			
Temperature: Min:				Max:				W - WATER			
Temperature: Min:				Max:				S - SOIL			
Temperature: Min:				Max:				SL - SLUDGE			
Temperature: Min:				Max:				SD - SOLID			
Temperature: Min:				Max:				A - AIR			
Temperature: Min:				Max:				L - LIQUID			
Temperature: Min:				Max:				P - PRODUCT			

March 12, 2018

Lauren Petty
Southern Company Services, Inc.
42 Inverness Center Parkway
Birmingham, AL 35242

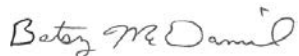
RE: Project: Plant Kraft
Pace Project No.: 261705

Dear Lauren Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Kevin Stephenson, Resolute Environmental & Water
Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water
Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft

Pace Project No.: 261705

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft

Pace Project No.: 261705

Lab ID	Sample ID	Matrix	Date Collected	Date Received
261705002	MW-15DR	Water	02/09/18 11:30	02/12/18 08:15
261705003	EQBL020918	Water	02/09/18 12:00	02/12/18 08:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft

Pace Project No.: 261705

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
261705002	MW-15DR	EPA 8270 by SIM	PKS	7	PASI-C
261705003	EQBL020918	EPA 8270 by SIM	PKS	7	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft

Pace Project No.: 261705

Sample: MW-15DR		Lab ID: 261705002		Collected: 02/09/18 11:30		Received: 02/12/18 08:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Benzo(a)anthracene	0.00052	mg/L	0.000050	0.000050	1	02/15/18 17:25	02/16/18 19:54	56-55-3	R1
Benzo(a)pyrene	ND	mg/L	0.00020	0.00020	1	02/15/18 17:25	02/16/18 19:54	50-32-8	R1
Benzo(b)fluoranthene	0.00022	mg/L	0.000050	0.000050	1	02/15/18 17:25	02/16/18 19:54	205-99-2	R1
Indeno(1,2,3-cd)pyrene	0.000052	mg/L	0.000050	0.000050	1	02/15/18 17:25	02/16/18 19:54	193-39-5	M1,R1
Surrogates									
Nitrobenzene-d5 (S)	22	%	30-150		1	02/15/18 17:25	02/16/18 19:54	4165-60-0	S2
2-Fluorobiphenyl (S)	51	%	30-150		1	02/15/18 17:25	02/16/18 19:54	321-60-8	
Terphenyl-d14 (S)	28	%	30-150		1	02/15/18 17:25	02/16/18 19:54	1718-51-0	S0

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft

Pace Project No.: 261705

Sample: EQBL020918		Lab ID: 261705003		Collected: 02/09/18 12:00	Received: 02/12/18 08:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
8270 MSSV PAH by SIM 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Benzo(a)anthracene	ND	mg/L	0.000048	0.000048	1	02/15/18 17:25	02/16/18 21:03	56-55-3		
Benzo(a)pyrene	ND	mg/L	0.00019	0.00019	1	02/15/18 17:25	02/16/18 21:03	50-32-8		
Benzo(b)fluoranthene	ND	mg/L	0.000048	0.000048	1	02/15/18 17:25	02/16/18 21:03	205-99-2		
Indeno(1,2,3-cd)pyrene	ND	mg/L	0.000048	0.000048	1	02/15/18 17:25	02/16/18 21:03	193-39-5		
Surrogates										
Nitrobenzene-d5 (S)	77	%	30-150		1	02/15/18 17:25	02/16/18 21:03	4165-60-0		
2-Fluorobiphenyl (S)	77	%	30-150		1	02/15/18 17:25	02/16/18 21:03	321-60-8		
Terphenyl-d14 (S)	80	%	30-150		1	02/15/18 17:25	02/16/18 21:03	1718-51-0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft
Pace Project No.: 261705

QC Batch: 398269 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water CPAH by SIM MSSV 3510
Associated Lab Samples: 261705002, 261705003

METHOD BLANK: 2209247 Matrix: Water
Associated Lab Samples: 261705002, 261705003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzo(a)anthracene	mg/L	ND	0.000050	0.000050	02/16/18 18:21	
Benzo(a)pyrene	mg/L	ND	0.00020	0.00020	02/16/18 18:21	
Benzo(b)fluoranthene	mg/L	ND	0.000050	0.000050	02/16/18 18:21	
Indeno(1,2,3-cd)pyrene	mg/L	ND	0.000050	0.000050	02/16/18 18:21	
2-Fluorobiphenyl (S)	%	75	30-150		02/16/18 18:21	
Nitrobenzene-d5 (S)	%	82	30-150		02/16/18 18:21	
Terphenyl-d14 (S)	%	96	30-150		02/16/18 18:21	

LABORATORY CONTROL SAMPLE: 2209248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)anthracene	mg/L	.001	0.00091	91	51-134	
Benzo(a)pyrene	mg/L	.001	0.00088	88	58-133	
Benzo(b)fluoranthene	mg/L	.001	0.00097	97	42-143	
Indeno(1,2,3-cd)pyrene	mg/L	.001	0.00092	92	46-121	
2-Fluorobiphenyl (S)	%			72	30-150	
Nitrobenzene-d5 (S)	%			79	30-150	
Terphenyl-d14 (S)	%			97	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209249 2209250

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		261705002 Result	Spike Conc.	Spike Conc.	MS Result						
Benzo(a)anthracene	mg/L	0.00052	.002	.002	0.0021	0.0013	78	39	18-104	47	30 R1
Benzo(a)pyrene	mg/L	ND	.002	.002	0.00085	0.00050	36	19	14-121	53	30 R1
Benzo(b)fluoranthene	mg/L	0.00022	.002	.002	0.0011	0.00059	43	18	11-116	59	30 R1
Indeno(1,2,3-cd)pyrene	mg/L	0.000052	.002	.002	0.00035	0.00022	15	8	10-120	49	30 M1,R1
2-Fluorobiphenyl (S)	%						68	74	30-150		
Nitrobenzene-d5 (S)	%						14	14	30-150		S2
Terphenyl-d14 (S)	%						37	34	30-150		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft

Pace Project No.: 261705

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft

Pace Project No.: 261705

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
261705002	MW-15DR	EPA 3510	398269	EPA 8270 by SIM	398448
261705003	EQBL020918	EPA 3510	398269	EPA 8270 by SIM	398448

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 Of 1

Section A

Required Client Information: **NORTHERN AREA**
 Company: Georgia Power - East Combustion-Residuals
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Email: jbraham@southernco.com
 Phone: (404)506-7239 Fax
 Requested Due Date:

Section B

Required Project Information:
 Report To: Joju Abraham, LAVERN BERRY, LARRY WILSON
 Copy To: STEPHEN WILSON, TRENT GORDWIN
 Project Name: Plant Kraft/NORTHERN AREA
 Purchase Order #:
 Project #:
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: betsy.medaniel@pacelabs.com
 Pace Profile #: 329

Respiratory Agency
 State/Location: GA

ITEM #	MATRIX	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	Y/N	Requested Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)	PAH SUBSET:
				START DATE TIME	END DATE TIME							
1	Drinking Water	WT G	G	02/19/18 11:30	02/19/18 11:30	8	H2SO4 Unpreserved	Metals 6020 (As, Ca, Mg, K, Ni) Metals 6020 (As only) Catb Alk, Bleach Alk, TDS, C PAH 8270/SIM				* PAH SUBSET: IDEND PARAE SERIES HISTORICALLY USED RT PLANT KRAFT NORTHERN AREA
2	Waste Water	WT G	G	02/19/18 12:00	02/19/18 12:00	2						
3	Product											
4	Soil/Solid											
5	Oil											
6	Wipe											
7	Air											
8	Other											
9	Tissue											
10	DEIONIZED											
11												
12												

NO#: 261705

RECEIVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP °C	Received on	Temp (Y/N)	Custody	Sealed	Cooler	Samples
MICHAEL PATINKIN	02/12/18	08:15	M. RALMAN	2/12/18	08:15	0.5						

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: MICHAEL PATINKIN
 SIGNATURE of SAMPLER:

DATE Signed: 02/12/18

Client

Sample Condition Upon Receipt



Client Name: GIA Power

Project # _____

WO#: 261705

PM: BM Due Date: 02/19/18

CLIENT: GAPower

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used THR083 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.5 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 8°C

Date and Initials of person examining contents: 2/12/18 MR

Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):	_____		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp incorrect containers)



November 28, 2016

Michael Patinkin
Resolute Env. & Water Resources Consulting, LLC
1001 Weatherstone Pkwy
Woodstock GA 30188

TEL: (678) 232-9499
FAX: (888) 881-8219

RE: Troutman Sanders Plant Kraft

Dear Michael Patinkin:

Order No: 1611F49

Analytical Environmental Services, Inc. received 15 samples on 11/16/2016 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Ioana Pacurar
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

1611F49

Work Order: PLANT KRAFT PHASE I

Date: 11/15/16 Page 1 of 1

COMPANY: GEORGIA POWER COMPANY		ADDRESS: 241 RALEIGH MCGILL BLVD ATLANTA, GA 30307		ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																															
PHONE: 678.232.9499		FAX:		PRESERVATION (See codes)										REMARKS																																	
SAMPLED BY: MICHAEL PATTINKIN FORREST HOWARD (RESOLVE)		SIGNATURE:		<table border="1"> <tr> <td>HA</td><td>SH</td><td>2/A</td><td>NA</td><td>NA</td><td>S/H</td><td>S/T</td> <td>ASBESTOS</td><td>LEAD</td><td>PCB</td><td>COLOID</td><td>BTEX</td><td>PAHs</td><td>DRD</td><td>GRD</td><td>VOCs</td> </tr> <tr> <td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										HA	SH		2/A	NA	NA	S/H	S/T	ASBESTOS	LEAD	PCB	COLOID	BTEX	PAHs	DRD	GRD	VOCs	X	X															
HA	SH	2/A	NA	NA	S/H	S/T	ASBESTOS	LEAD	PCB	COLOID	BTEX	PAHs	DRD	GRD	VOCs																																
X	X																																														
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)										REMARKS	No # of Containers																													
		DATE	TIME				HA	SH	2/A	NA	NA	S/H	S/T	ASBESTOS	LEAD	PCB			COLOID	BTEX	PAHs	DRD	GRD	VOCs																							
1	SB-36-14-0-1.5	11/15/16	0745	X		SO	X	X													2 COOLERS	1																									
2	GW-36-14		0745	X		GW	X	X														1																									
3	SB-21-2-3		0900	X		SO	X			X					X							6																									
4	GW-21		0900	X		GW	X			X					X							4																									
5	SB-9-2-3		0930	X		SO			X	X	X	X										6																									
6	GW-9		0930	X		GW			X	X	X	X										4																									
7	SB-38-1.3-2.6		1000	X		SO			X	X	X	X										6																									
8	GW-38		1000	X		GW			X	X	X	X										4																									
9	SB-18-4-5		1115	X		SO	X			X					X							6																									
10	GW-18		1115	X		GW	X			X					X							4																									
11	SB-49-10		1230	X		SO			X	X	X	X										6																									
12	RB-5		1715	X		W	X	X		X	X	X	X									5																									
13	RB-5		1725	X		W	X	X		X	X	X	X									5																									
14	GW-04																																														
RELINQUISHED BY: MICHAEL PATTINKIN		DATE/TIME: 11/15/16 1745		RECEIVED BY: [Signature]		DATE/TIME: 10:25		PROJECT INFORMATION										RECEIPT																													
1: MICHAEL PATTINKIN		2: [Signature]		3: [Signature]		PROJECT NAME: TROUTMAN SANDERS PLANT KRAFT		PROJECT #:										Total # of Containers: 58																													
3: [Signature]		SITE ADDRESS: 155 CROSSGATE ROAD PORT. WENTWORTH, GA		SEND REPORT TO: STEPHEN WILSON (R) RESOLVEENV.COM		INVOICE TO: MICHAEL PATTINKIN (R) RESOLVEENV.COM		TURNAROUND TIME REQUEST										MP 11/15/16 62																													
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT 11/15/16 VIA: FEDEX		IN 1/1 VIA: [Signature]		CLIENT: (FedEx) UPS MAIL COURIER		STATE PROGRAM (if any): HSP										E-mail? Fax?																													
		GREYHOUND OTHER		QUOTE #: PO#:		DATA PACKAGE: I O II <input checked="" type="radio"/> III O IV O																																									

Client: Resolute Env. & Water Resources Consulting, LLC
Project: Troutman Sanders Plant Kraft
Lab ID: 1611F49

Case Narrative

Sample Receiving Non-conformance:

A Trip Blank was provided but not listed on the Chain of Custody. Trip blank analyzed at no cost to the client.

Two 4oz containers were received with no bottle labels. These two 4oz containers were received in the same bag as sample "SB-36-14-0-1.5", however the COC lists that this sample only has one container. Sample was logged in as one container while the extra 4oz jars were placed on hold per client request.

For sample "SB-18-4-5", the COC lists the sample as having 6 containers but only 4 were received. The sample was logged in and all analyses requested were place on the 2 oz jar as the missing jars were not received.

For sample "SB-49-1", the COC lists the sample ID as "SB-49-1" while the bottle label lists the sample ID as "SB-49-1.3-2.7". The sample was identified and logged in using the collection date and time information on the COC.

Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-36-14-0-1.5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 7:45:00 AM
Lab ID: 1611F49-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.124		mg/Kg-dry	233460	1	11/22/2016 14:25	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	4.51		mg/Kg-dry	233239	1	11/18/2016 22:16	JL
Barium	12.9	4.51		mg/Kg-dry	233239	1	11/18/2016 22:16	JL
Cadmium	BRL	2.25		mg/Kg-dry	233239	1	11/18/2016 22:16	JL
Chromium	4.24	2.25		mg/Kg-dry	233239	1	11/18/2016 22:16	JL
Copper	2.80	2.25		mg/Kg-dry	233239	1	11/18/2016 22:16	JL
Lead	27.6	4.51		mg/Kg-dry	233239	1	11/18/2016 22:16	JL
Selenium	BRL	4.51		mg/Kg-dry	233239	1	11/18/2016 22:16	JL
Silver	BRL	2.25		mg/Kg-dry	233239	1	11/18/2016 22:16	JL
PERCENT MOISTURE D2216								
Percent Moisture	20.3	0		wt%	R330523	1	11/22/2016 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-36-14
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 7:45:00 AM
Lab ID: 1611F49-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A				(SW7470A)				
Mercury	BRL	0.00020		mg/L	233338	1	11/21/2016 14:38	JR
METALS, TOTAL SW6010D				(SW3010A)				
Arsenic	BRL	0.0500		mg/L	233364	1	11/21/2016 22:45	JL
Barium	0.0243	0.0200		mg/L	233364	1	11/21/2016 22:45	JL
Cadmium	BRL	0.0050		mg/L	233364	1	11/21/2016 22:45	JL
Chromium	BRL	0.0100		mg/L	233364	1	11/21/2016 22:45	JL
Copper	BRL	0.0100		mg/L	233364	1	11/21/2016 22:45	JL
Lead	0.0307	0.0100		mg/L	233364	1	11/22/2016 15:10	JL
Selenium	BRL	0.0200		mg/L	233364	1	11/21/2016 22:45	JL
Silver	BRL	0.0100		mg/L	233364	1	11/21/2016 22:45	JL

Qualifiers:

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- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-21-2-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 9:00:00 AM
Lab ID: 1611F49-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.0897		mg/Kg-dry	233460	1	11/22/2016 14:27	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
2-Butanone	BRL	35		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
2-Hexanone	BRL	7.0		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
4-Methyl-2-pentanone	BRL	7.0		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Acetone	BRL	70		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Benzene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Bromodichloromethane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Bromoform	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Bromomethane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Carbon disulfide	BRL	7.0		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Chlorobenzene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Chloroethane	BRL	7.0		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Chloroform	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Chloromethane	BRL	7.0		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Cyclohexane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Dibromochloromethane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Dichlorodifluoromethane	BRL	7.0		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Ethylbenzene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Freon-113	BRL	7.0		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Isopropylbenzene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
m,p-Xylene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Methyl acetate	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD

Qualifiers:

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- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	SB-21-2-3
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/15/2016 9:00:00 AM
Lab ID:	1611F49-003	Matrix:	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Methylene chloride	BRL	14		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
o-Xylene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Styrene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Tetrachloroethene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Toluene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Trichloroethene	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Vinyl chloride	BRL	7.0		ug/Kg-dry	233378	1	11/22/2016 16:12	MD
Surr: 4-Bromofluorobenzene	81.1	70-128		%REC	233378	1	11/22/2016 16:12	MD
Surr: Dibromofluoromethane	91.7	78.2-128		%REC	233378	1	11/22/2016 16:12	MD
Surr: Toluene-d8	87.8	76.5-116		%REC	233378	1	11/22/2016 16:12	MD
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Acenaphthylene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
1-Methylnaphthalene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
2-Methylnaphthalene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Acenaphthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Fluorene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Phenanthrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Anthracene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Pyrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Benz(a)anthracene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Chrysene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Benzo(b)fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Benzo(k)fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Benzo(a)pyrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Dibenz(a,h)anthracene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Benzo(g,h,i)perylene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Indeno(1,2,3-cd)pyrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 11:17	RF
Surr: 2-Fluorobiphenyl	67.4	56.7-120		%REC	233172	1	11/23/2016 11:17	RF
Surr: 4-Terphenyl-d14	88.3	60-120		%REC	233172	1	11/23/2016 11:17	RF
Surr: Nitrobenzene-d5	68.4	52.6-120		%REC	233172	1	11/23/2016 11:17	RF
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	4.05		mg/Kg-dry	233239	1	11/18/2016 22:20	JL
Barium	21.5	4.05		mg/Kg-dry	233239	1	11/18/2016 22:20	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-21-2-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 9:00:00 AM
Lab ID: 1611F49-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	2.02		mg/Kg-dry	233239	1	11/18/2016 22:20	JL
Chromium	3.66	2.02		mg/Kg-dry	233239	1	11/18/2016 22:20	JL
Lead	5.69	4.05		mg/Kg-dry	233239	1	11/18/2016 22:20	JL
Selenium	BRL	4.05		mg/Kg-dry	233239	1	11/18/2016 22:20	JL
Silver	BRL	2.02		mg/Kg-dry	233239	1	11/18/2016 22:20	JL
PERCENT MOISTURE D2216								
Percent Moisture	4.51	0		wt%	R330523	1	11/22/2016 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	GW-21
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/15/2016 9:00:00 AM
Lab ID:	1611F49-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,1-Dichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,1-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,2-Dibromoethane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,2-Dichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,2-Dichloropropane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
2-Butanone	BRL	50		ug/L	233581	1	11/22/2016 19:54	BN
2-Hexanone	BRL	10		ug/L	233581	1	11/22/2016 19:54	BN
4-Methyl-2-pentanone	BRL	10		ug/L	233581	1	11/22/2016 19:54	BN
Acetone	BRL	50		ug/L	233581	1	11/22/2016 19:54	BN
Benzene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Bromodichloromethane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Bromoform	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Bromomethane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Carbon disulfide	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Carbon tetrachloride	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Chlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Chloroethane	BRL	10		ug/L	233581	1	11/22/2016 19:54	BN
Chloroform	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Chloromethane	BRL	10		ug/L	233581	1	11/22/2016 19:54	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Cyclohexane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Dibromochloromethane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Dichlorodifluoromethane	BRL	10		ug/L	233581	1	11/22/2016 19:54	BN
Ethylbenzene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Freon-113	BRL	10		ug/L	233581	1	11/22/2016 19:54	BN
Isopropylbenzene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
m,p-Xylene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Methyl acetate	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Methylcyclohexane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Methylene chloride	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
o-Xylene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-21
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 9:00:00 AM
Lab ID: 1611F49-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Tetrachloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Toluene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Trichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Trichlorofluoromethane	BRL	5.0		ug/L	233581	1	11/22/2016 19:54	BN
Vinyl chloride	BRL	2.0		ug/L	233581	1	11/22/2016 19:54	BN
Surr: 4-Bromofluorobenzene	82.1	66.1-129		%REC	233581	1	11/22/2016 19:54	BN
Surr: Dibromofluoromethane	96.4	83.6-123		%REC	233581	1	11/22/2016 19:54	BN
Surr: Toluene-d8	91.6	81.8-118		%REC	233581	1	11/22/2016 19:54	BN
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233338	1	11/21/2016 14:44	JR
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Acenaphthylene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
1-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
2-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Acenaphthene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Fluorene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Phenanthrene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Anthracene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Pyrene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Benz(a)anthracene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Chrysene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Benzo(a)pyrene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233174	1	11/23/2016 13:41	RF
Surr: Nitrobenzene-d5	58.1	56.9-120		%REC	233174	1	11/23/2016 13:41	RF
Surr: 2-Fluorobiphenyl	58.5	55.6-120		%REC	233174	1	11/23/2016 13:41	RF
Surr: 4-Terphenyl-d14	85.6	45.7-120		%REC	233174	1	11/23/2016 13:41	RF
METALS, TOTAL SW6010D			(SW3010A)					
Arsenic	BRL	0.0500		mg/L	233364	1	11/21/2016 22:48	JL
Barium	0.146	0.0200		mg/L	233364	1	11/21/2016 22:48	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-21
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 9:00:00 AM
Lab ID: 1611F49-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	233364	1	11/21/2016 22:48	JL
Chromium	0.0513	0.0100		mg/L	233364	1	11/21/2016 22:48	JL
Lead	BRL	0.0100		mg/L	233364	1	11/22/2016 15:13	JL
Selenium	BRL	0.0200		mg/L	233364	1	11/21/2016 22:48	JL
Silver	BRL	0.0100		mg/L	233364	1	11/21/2016 22:48	JL

Qualifiers:

- * Value exceeds maximum contaminant level
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-9-2-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 9:30:00 AM
Lab ID: 1611F49-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.77		ug/Kg-dry	233346	1	11/25/2016 21:46	JE
Toluene	BRL	0.77		ug/Kg-dry	233346	1	11/25/2016 21:46	JE
Ethylbenzene	BRL	0.77		ug/Kg-dry	233346	1	11/25/2016 21:46	JE
m,p-Xylene	BRL	0.77		ug/Kg-dry	233346	1	11/25/2016 21:46	JE
o-Xylene	BRL	0.77		ug/Kg-dry	233346	1	11/25/2016 21:46	JE
Surr: 4-Bromofluorobenzene	90.5	70-128		%REC	233346	1	11/25/2016 21:46	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Acenaphthylene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
1-Methylnaphthalene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
2-Methylnaphthalene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Acenaphthene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Fluorene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Phenanthrene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Anthracene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Fluoranthene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Pyrene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Benz(a)anthracene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Chrysene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Benzo(k)fluoranthene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Benzo(a)pyrene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Dibenz(a,h)anthracene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Benzo(g,h,i)perylene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	233172	1	11/23/2016 11:46	RF
Surr: 2-Fluorobiphenyl	69.3	56.7-120		%REC	233172	1	11/23/2016 11:46	RF
Surr: 4-Terphenyl-d14	90.4	60-120		%REC	233172	1	11/23/2016 11:46	RF
Surr: Nitrobenzene-d5	71.1	52.6-120		%REC	233172	1	11/23/2016 11:46	RF
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.38		mg/Kg-dry	233346	1	11/25/2016 21:46	JE
Surr: a.a.a-trifluorotoluene	123	69.8-134		%REC	233346	1	11/25/2016 21:46	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	233249	1	11/21/2016 21:06	RF
Surr: Dioctylphthalate	81.6	50.1-122		%REC	233249	1	11/21/2016 21:06	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.4	0		wt%	R330523	1	11/22/2016 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-9
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 9:30:00 AM
Lab ID: 1611F49-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B					(SW5030B)			
Benzene	BRL	1.0		ug/L	233747	1	11/27/2016 20:14	JE
Toluene	BRL	1.0		ug/L	233747	1	11/27/2016 20:14	JE
Ethylbenzene	BRL	1.0		ug/L	233747	1	11/27/2016 20:14	JE
m,p-Xylene	BRL	1.0		ug/L	233747	1	11/27/2016 20:14	JE
o-Xylene	BRL	1.0		ug/L	233747	1	11/27/2016 20:14	JE
Surr: 4-Bromofluorobenzene	88.4	66.1-129		%REC	233747	1	11/27/2016 20:14	JE
GASOLINE RANGE ORGANICS SW8015C					(SW5030B)			
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233747	1	11/27/2016 20:14	JE
Surr: a.a.a-trifluorotoluene	107	75.1-120		%REC	233747	1	11/27/2016 20:14	JE
DIESEL RANGE ORGANICS SW8015C					(SW3510C)			
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/18/2016 16:50	RF
Surr: Dioctylphthalate	32.2	47-119	S	%REC	233098	1	11/18/2016 16:50	RF
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Naphthalene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Acenaphthylene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
1-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
2-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Acenaphthene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Fluorene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Phenanthrene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Anthracene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Pyrene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Benz(a)anthracene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Chrysene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Benzo(a)pyrene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233174	1	11/23/2016 14:09	RF
Surr: Nitrobenzene-d5	58.1	56.9-120		%REC	233174	1	11/23/2016 14:09	RF
Surr: 2-Fluorobiphenyl	60.6	55.6-120		%REC	233174	1	11/23/2016 14:09	RF
Surr: 4-Terphenyl-d14	86.2	45.7-120		%REC	233174	1	11/23/2016 14:09	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-38-1.3-2.6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 10:00:00 AM
Lab ID: 1611F49-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.76		ug/Kg-dry	233346	1	11/25/2016 22:16	JE
Toluene	BRL	0.76		ug/Kg-dry	233346	1	11/25/2016 22:16	JE
Ethylbenzene	BRL	0.76		ug/Kg-dry	233346	1	11/25/2016 22:16	JE
m,p-Xylene	BRL	0.76		ug/Kg-dry	233346	1	11/25/2016 22:16	JE
o-Xylene	BRL	0.76		ug/Kg-dry	233346	1	11/25/2016 22:16	JE
Surr: 4-Bromofluorobenzene	95	70-128		%REC	233346	1	11/25/2016 22:16	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Acenaphthylene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
1-Methylnaphthalene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
2-Methylnaphthalene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Acenaphthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Fluorene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Phenanthrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Anthracene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Pyrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Benz(a)anthracene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Chrysene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Benzo(b)fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Benzo(k)fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Benzo(a)pyrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Dibenz(a,h)anthracene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Benzo(g,h,i)perylene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Indeno(1,2,3-cd)pyrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 12:15	RF
Surr: 2-Fluorobiphenyl	67.8	56.7-120		%REC	233172	1	11/23/2016 12:15	RF
Surr: 4-Terphenyl-d14	86.8	60-120		%REC	233172	1	11/23/2016 12:15	RF
Surr: Nitrobenzene-d5	71.8	52.6-120		%REC	233172	1	11/23/2016 12:15	RF
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.38		mg/Kg-dry	233346	1	11/25/2016 22:16	JE
Surr: a.a.a-trifluorotoluene	124	69.8-134		%REC	233346	1	11/25/2016 22:16	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	11	7.2		mg/Kg-dry	233249	1	11/21/2016 21:29	RF
Surr: Dioctylphthalate	71.9	50.1-122		%REC	233249	1	11/21/2016 21:29	RF
PERCENT MOISTURE D2216								
Percent Moisture	6.94	0		wt%	R330523	1	11/22/2016 08:00	BD

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-38
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 10:00:00 AM
Lab ID: 1611F49-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5030B)						
Benzene	BRL	1.0		ug/L	233747	1	11/27/2016 20:44	JE
Toluene	BRL	1.0		ug/L	233747	1	11/27/2016 20:44	JE
Ethylbenzene	BRL	1.0		ug/L	233747	1	11/27/2016 20:44	JE
m,p-Xylene	BRL	1.0		ug/L	233747	1	11/27/2016 20:44	JE
o-Xylene	BRL	1.0		ug/L	233747	1	11/27/2016 20:44	JE
Surr: 4-Bromofluorobenzene	89.1	66.1-129		%REC	233747	1	11/27/2016 20:44	JE
GASOLINE RANGE ORGANICS SW8015C		(SW5030B)						
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233747	1	11/27/2016 20:44	JE
Surr: a.a.a-trifluorotoluene	106	75.1-120		%REC	233747	1	11/27/2016 20:44	JE
DIESEL RANGE ORGANICS SW8015C		(SW3510C)						
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/18/2016 17:13	RF
Surr: Dioctylphthalate	29	47-119	S	%REC	233098	1	11/18/2016 17:13	RF
POLYAROMATIC HYDROCARBONS SW8270D		(SW3510C)						
Naphthalene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Acenaphthylene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
1-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
2-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Acenaphthene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Fluorene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Phenanthrene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Anthracene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Pyrene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Benz(a)anthracene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Chrysene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Benzo(a)pyrene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233174	1	11/23/2016 14:38	RF
Surr: Nitrobenzene-d5	60.7	56.9-120		%REC	233174	1	11/23/2016 14:38	RF
Surr: 2-Fluorobiphenyl	59.5	55.6-120		%REC	233174	1	11/23/2016 14:38	RF
Surr: 4-Terphenyl-d14	84.2	45.7-120		%REC	233174	1	11/23/2016 14:38	RF

Qualifiers:

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- NC Not confirmed
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Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-18-4-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 11:15:00 AM
Lab ID: 1611F49-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B								
					(SW7471B)			
Mercury	BRL	0.101		mg/Kg-dry	233460	1	11/22/2016 14:34	JR
TCL VOLATILE ORGANICS SW8260B								
					(SW5035)			
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
2-Butanone	BRL	39		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
2-Hexanone	BRL	7.7		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
4-Methyl-2-pentanone	BRL	7.7		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Acetone	BRL	77		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Benzene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Bromodichloromethane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Bromoform	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Bromomethane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Carbon disulfide	BRL	7.7		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Chlorobenzene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Chloroethane	BRL	7.7		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Chloroform	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Chloromethane	BRL	7.7		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Cyclohexane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Dibromochloromethane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Dichlorodifluoromethane	BRL	7.7		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Ethylbenzene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Freon-113	BRL	7.7		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Isopropylbenzene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
m,p-Xylene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Methyl acetate	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD

Qualifiers:

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- NC Not confirmed
- < Less than Result value
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Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-18-4-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 11:15:00 AM
Lab ID: 1611F49-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Methylene chloride	BRL	15		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
o-Xylene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Styrene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Tetrachloroethene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Toluene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Trichloroethene	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Vinyl chloride	BRL	7.7		ug/Kg-dry	233378	1	11/22/2016 16:36	MD
Surr: 4-Bromofluorobenzene	89.9	70-128		%REC	233378	1	11/22/2016 16:36	MD
Surr: Dibromofluoromethane	94.4	78.2-128		%REC	233378	1	11/22/2016 16:36	MD
Surr: Toluene-d8	88.9	76.5-116		%REC	233378	1	11/22/2016 16:36	MD
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Acenaphthylene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
1-Methylnaphthalene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
2-Methylnaphthalene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Acenaphthene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Fluorene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Phenanthrene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Anthracene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Pyrene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Benz(a)anthracene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Chrysene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Benzo(a)pyrene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	233172	1	11/23/2016 12:44	RF
Surr: 2-Fluorobiphenyl	61.5	56.7-120		%REC	233172	1	11/23/2016 12:44	RF
Surr: 4-Terphenyl-d14	77.7	60-120		%REC	233172	1	11/23/2016 12:44	RF
Surr: Nitrobenzene-d5	63.5	52.6-120		%REC	233172	1	11/23/2016 12:44	RF
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	4.09		mg/Kg-dry	233239	1	11/18/2016 22:23	JL
Barium	36.0	4.09		mg/Kg-dry	233239	1	11/18/2016 22:23	JL

Qualifiers:

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- Narr See case narrative
- NC Not confirmed
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Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-18-4-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 11:15:00 AM
Lab ID: 1611F49-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	2.04		mg/Kg-dry	233239	1	11/18/2016 22:23	JL
Chromium	BRL	2.04		mg/Kg-dry	233239	1	11/18/2016 22:23	JL
Lead	BRL	4.09		mg/Kg-dry	233239	1	11/18/2016 22:23	JL
Selenium	BRL	4.09		mg/Kg-dry	233239	1	11/18/2016 22:23	JL
Silver	BRL	2.04		mg/Kg-dry	233239	1	11/18/2016 22:23	JL
PERCENT MOISTURE D2216								
Percent Moisture	15.8	0		wt%	R330523	1	11/22/2016 08:00	BD

Qualifiers:

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Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-18
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 11:15:00 AM
Lab ID: 1611F49-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,1-Dichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,1-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,2-Dibromoethane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,2-Dichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,2-Dichloropropane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
2-Butanone	BRL	50		ug/L	233581	1	11/22/2016 21:50	BN
2-Hexanone	BRL	10		ug/L	233581	1	11/22/2016 21:50	BN
4-Methyl-2-pentanone	BRL	10		ug/L	233581	1	11/22/2016 21:50	BN
Acetone	BRL	50		ug/L	233581	1	11/22/2016 21:50	BN
Benzene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Bromodichloromethane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Bromoform	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Bromomethane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Carbon disulfide	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Carbon tetrachloride	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Chlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Chloroethane	BRL	10		ug/L	233581	1	11/22/2016 21:50	BN
Chloroform	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Chloromethane	BRL	10		ug/L	233581	1	11/22/2016 21:50	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Cyclohexane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Dibromochloromethane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Dichlorodifluoromethane	BRL	10		ug/L	233581	1	11/22/2016 21:50	BN
Ethylbenzene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Freon-113	BRL	10		ug/L	233581	1	11/22/2016 21:50	BN
Isopropylbenzene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
m,p-Xylene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Methyl acetate	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Methylcyclohexane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Methylene chloride	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
o-Xylene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-18
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 11:15:00 AM
Lab ID: 1611F49-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Tetrachloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Toluene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Trichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Trichlorofluoromethane	BRL	5.0		ug/L	233581	1	11/22/2016 21:50	BN
Vinyl chloride	BRL	2.0		ug/L	233581	1	11/22/2016 21:50	BN
Surr: 4-Bromofluorobenzene	81.8	66.1-129		%REC	233581	1	11/22/2016 21:50	BN
Surr: Dibromofluoromethane	87.4	83.6-123		%REC	233581	1	11/22/2016 21:50	BN
Surr: Toluene-d8	88.9	81.8-118		%REC	233581	1	11/22/2016 21:50	BN
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233338	1	11/21/2016 14:46	JR
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Acenaphthylene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
1-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
2-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Acenaphthene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Fluorene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Phenanthrene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Anthracene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Pyrene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Benz(a)anthracene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Chrysene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Benzo(a)pyrene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233174	1	11/23/2016 15:08	RF
Surr: Nitrobenzene-d5	47.8	56.9-120	S	%REC	233174	1	11/23/2016 15:08	RF
Surr: 2-Fluorobiphenyl	46.6	55.6-120	S	%REC	233174	1	11/23/2016 15:08	RF
Surr: 4-Terphenyl-d14	52.8	45.7-120		%REC	233174	1	11/23/2016 15:08	RF
METALS, TOTAL SW6010D			(SW3010A)					
Arsenic	BRL	0.0500		mg/L	233364	1	11/21/2016 22:52	JL
Barium	0.170	0.0200		mg/L	233364	1	11/21/2016 22:52	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-18
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 11:15:00 AM
Lab ID: 1611F49-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	233364	1	11/21/2016 22:52	JL
Chromium	0.0464	0.0100		mg/L	233364	1	11/21/2016 22:52	JL
Lead	0.0188	0.0100		mg/L	233364	1	11/21/2016 22:52	JL
Selenium	BRL	0.0200		mg/L	233364	1	11/21/2016 22:52	JL
Silver	BRL	0.0100		mg/L	233364	1	11/21/2016 22:52	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-49-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 12:30:00 PM
Lab ID: 1611F49-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.70		ug/Kg-dry	233346	1	11/25/2016 22:46	JE
Toluene	BRL	0.70		ug/Kg-dry	233346	1	11/25/2016 22:46	JE
Ethylbenzene	BRL	0.70		ug/Kg-dry	233346	1	11/25/2016 22:46	JE
m,p-Xylene	BRL	0.70		ug/Kg-dry	233346	1	11/25/2016 22:46	JE
o-Xylene	BRL	0.70		ug/Kg-dry	233346	1	11/25/2016 22:46	JE
Surr: 4-Bromofluorobenzene	87.2	70-128		%REC	233346	1	11/25/2016 22:46	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Acenaphthylene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
1-Methylnaphthalene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
2-Methylnaphthalene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Acenaphthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Fluorene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Phenanthrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Anthracene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Pyrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Benz(a)anthracene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Chrysene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Benzo(b)fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Benzo(k)fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Benzo(a)pyrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Dibenz(a,h)anthracene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Benzo(g,h,i)perylene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Indeno(1,2,3-cd)pyrene	BRL	350		ug/Kg-dry	233172	1	11/23/2016 13:12	RF
Surr: 2-Fluorobiphenyl	66.6	56.7-120		%REC	233172	1	11/23/2016 13:12	RF
Surr: 4-Terphenyl-d14	86.7	60-120		%REC	233172	1	11/23/2016 13:12	RF
Surr: Nitrobenzene-d5	66.1	52.6-120		%REC	233172	1	11/23/2016 13:12	RF
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.35		mg/Kg-dry	233346	1	11/25/2016 22:46	JE
Surr: a.a.a-trifluorotoluene	128	69.8-134		%REC	233346	1	11/25/2016 22:46	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	14	7.1		mg/Kg-dry	233249	1	11/21/2016 21:52	RF
Surr: Dioctylphthalate	68.9	50.1-122		%REC	233249	1	11/21/2016 21:52	RF
PERCENT MOISTURE D2216								
Percent Moisture	5.58	0		wt%	R330523	1	11/22/2016 08:00	BD

Qualifiers:

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- BRL Below reporting limit
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 5:15:00 PM
Lab ID: 1611F49-012	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,1-Dichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,1-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,2-Dibromoethane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,2-Dichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,2-Dichloropropane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
2-Butanone	BRL	50		ug/L	233581	1	11/22/2016 22:19	BN
2-Hexanone	BRL	10		ug/L	233581	1	11/22/2016 22:19	BN
4-Methyl-2-pentanone	BRL	10		ug/L	233581	1	11/22/2016 22:19	BN
Acetone	BRL	50		ug/L	233581	1	11/22/2016 22:19	BN
Benzene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Bromodichloromethane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Bromoform	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Bromomethane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Carbon disulfide	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Carbon tetrachloride	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Chlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Chloroethane	BRL	10		ug/L	233581	1	11/22/2016 22:19	BN
Chloroform	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Chloromethane	BRL	10		ug/L	233581	1	11/22/2016 22:19	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Cyclohexane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Dibromochloromethane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Dichlorodifluoromethane	BRL	10		ug/L	233581	1	11/22/2016 22:19	BN
Ethylbenzene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Freon-113	BRL	10		ug/L	233581	1	11/22/2016 22:19	BN
Isopropylbenzene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
m,p-Xylene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Methyl acetate	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Methylcyclohexane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Methylene chloride	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
o-Xylene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 5:15:00 PM
Lab ID: 1611F49-012	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Tetrachloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Toluene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Trichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Trichlorofluoromethane	BRL	5.0		ug/L	233581	1	11/22/2016 22:19	BN
Vinyl chloride	BRL	2.0		ug/L	233581	1	11/22/2016 22:19	BN
Surr: 4-Bromofluorobenzene	79.2	66.1-129		%REC	233581	1	11/22/2016 22:19	BN
Surr: Dibromofluoromethane	90.7	83.6-123		%REC	233581	1	11/22/2016 22:19	BN
Surr: Toluene-d8	95.2	81.8-118		%REC	233581	1	11/22/2016 22:19	BN
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233338	1	11/21/2016 14:48	JR
GASOLINE RANGE ORGANICS SW8015C			(SW5030B)					
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233747	1	11/27/2016 21:13	JE
Surr: a.a.a-trifluorotoluene	110	75.1-120		%REC	233747	1	11/27/2016 21:13	JE
DIESEL RANGE ORGANICS SW8015C			(SW3510C)					
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/18/2016 17:37	RF
Surr: Dioctylphthalate	78	47-119		%REC	233098	1	11/18/2016 17:37	RF
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Acenaphthylene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
1-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
2-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Acenaphthene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Fluorene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Phenanthrene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Anthracene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Pyrene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Benz(a)anthracene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Chrysene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Benzo(a)pyrene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 5:15:00 PM
Lab ID: 1611F49-012	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233174	1	11/23/2016 15:37	RF
Surr: Nitrobenzene-d5	66.7	56.9-120		%REC	233174	1	11/23/2016 15:37	RF
Surr: 2-Fluorobiphenyl	65.5	55.6-120		%REC	233174	1	11/23/2016 15:37	RF
Surr: 4-Terphenyl-d14	90	45.7-120		%REC	233174	1	11/23/2016 15:37	RF
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233364	1	11/21/2016 22:55	JL
Barium	BRL	0.0200		mg/L	233364	1	11/21/2016 22:55	JL
Cadmium	BRL	0.0050		mg/L	233364	1	11/21/2016 22:55	JL
Chromium	BRL	0.0100		mg/L	233364	1	11/21/2016 22:55	JL
Copper	BRL	0.0100		mg/L	233364	1	11/21/2016 22:55	JL
Lead	BRL	0.0100		mg/L	233364	1	11/21/2016 22:55	JL
Selenium	BRL	0.0200		mg/L	233364	1	11/21/2016 22:55	JL
Silver	BRL	0.0100		mg/L	233364	1	11/21/2016 22:55	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 5:25:00 PM
Lab ID: 1611F49-013	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,1-Dichloroethane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,1-Dichloroethene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,2-Dibromoethane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,2-Dichloroethane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,2-Dichloropropane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
2-Butanone	BRL	50		ug/L	233581	1	11/23/2016 11:49	BN
2-Hexanone	BRL	10		ug/L	233581	1	11/23/2016 11:49	BN
4-Methyl-2-pentanone	BRL	10		ug/L	233581	1	11/23/2016 11:49	BN
Acetone	BRL	50		ug/L	233581	1	11/23/2016 11:49	BN
Benzene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Bromodichloromethane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Bromoform	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Bromomethane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Carbon disulfide	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Carbon tetrachloride	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Chlorobenzene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Chloroethane	BRL	10		ug/L	233581	1	11/23/2016 11:49	BN
Chloroform	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Chloromethane	BRL	10		ug/L	233581	1	11/23/2016 11:49	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Cyclohexane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Dibromochloromethane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Dichlorodifluoromethane	BRL	10		ug/L	233581	1	11/23/2016 11:49	BN
Ethylbenzene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Freon-113	BRL	10		ug/L	233581	1	11/23/2016 11:49	BN
Isopropylbenzene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
m,p-Xylene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Methyl acetate	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Methylcyclohexane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Methylene chloride	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
o-Xylene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 5:25:00 PM
Lab ID: 1611F49-013	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Tetrachloroethene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Toluene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Trichloroethene	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Trichlorofluoromethane	BRL	5.0		ug/L	233581	1	11/23/2016 11:49	BN
Vinyl chloride	BRL	2.0		ug/L	233581	1	11/23/2016 11:49	BN
Surr: 4-Bromofluorobenzene	83.2	66.1-129		%REC	233581	1	11/23/2016 11:49	BN
Surr: Dibromofluoromethane	95.7	83.6-123		%REC	233581	1	11/23/2016 11:49	BN
Surr: Toluene-d8	98.5	81.8-118		%REC	233581	1	11/23/2016 11:49	BN
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233338	1	11/21/2016 14:50	JR
GASOLINE RANGE ORGANICS SW8015C			(SW5030B)					
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233747	1	11/27/2016 21:42	JE
Surr: a.a.a-trifluorotoluene	108	75.1-120		%REC	233747	1	11/27/2016 21:42	JE
DIESEL RANGE ORGANICS SW8015C			(SW3510C)					
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/18/2016 18:00	RF
Surr: Dioctylphthalate	63.4	47-119		%REC	233098	1	11/18/2016 18:00	RF
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Acenaphthylene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
1-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
2-Methylnaphthalene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Acenaphthene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Fluorene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Phenanthrene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Anthracene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Pyrene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Benz(a)anthracene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Chrysene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Benzo(a)pyrene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016 5:25:00 PM
Lab ID: 1611F49-013	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233174	1	11/23/2016 16:06	RF
Surr: Nitrobenzene-d5	64	56.9-120		%REC	233174	1	11/23/2016 16:06	RF
Surr: 2-Fluorobiphenyl	64.4	55.6-120		%REC	233174	1	11/23/2016 16:06	RF
Surr: 4-Terphenyl-d14	93.4	45.7-120		%REC	233174	1	11/23/2016 16:06	RF
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233364	1	11/21/2016 23:05	JL
Barium	BRL	0.0200		mg/L	233364	1	11/21/2016 23:05	JL
Cadmium	BRL	0.0050		mg/L	233364	1	11/21/2016 23:05	JL
Chromium	BRL	0.0100		mg/L	233364	1	11/21/2016 23:05	JL
Copper	BRL	0.0100		mg/L	233364	1	11/21/2016 23:05	JL
Lead	BRL	0.0100		mg/L	233364	1	11/21/2016 23:05	JL
Selenium	BRL	0.0200		mg/L	233364	1	11/21/2016 23:05	JL
Silver	BRL	0.0100		mg/L	233364	1	11/21/2016 23:05	JL

Qualifiers:

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- S Spike Recovery outside limits due to matrix
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- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	TRIP BLANK 1
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/16/2016
Lab ID:	1611F49-014	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,1-Dichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,1-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,2-Dibromoethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,2-Dichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,2-Dichloropropane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
2-Butanone	BRL	50		ug/L	233581	1	11/22/2016 23:17	BN
2-Hexanone	BRL	10		ug/L	233581	1	11/22/2016 23:17	BN
4-Methyl-2-pentanone	BRL	10		ug/L	233581	1	11/22/2016 23:17	BN
Acetone	BRL	50		ug/L	233581	1	11/22/2016 23:17	BN
Benzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Bromodichloromethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Bromoform	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Bromomethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Carbon disulfide	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Carbon tetrachloride	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Chlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Chloroethane	BRL	10		ug/L	233581	1	11/22/2016 23:17	BN
Chloroform	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Chloromethane	BRL	10		ug/L	233581	1	11/22/2016 23:17	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Cyclohexane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Dibromochloromethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Dichlorodifluoromethane	BRL	10		ug/L	233581	1	11/22/2016 23:17	BN
Ethylbenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Freon-113	BRL	10		ug/L	233581	1	11/22/2016 23:17	BN
Isopropylbenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
m,p-Xylene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Methyl acetate	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Methylcyclohexane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Methylene chloride	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
o-Xylene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK 1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/16/2016
Lab ID: 1611F49-014	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Tetrachloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Toluene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Trichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Trichlorofluoromethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:17	BN
Vinyl chloride	BRL	2.0		ug/L	233581	1	11/22/2016 23:17	BN
Surr: 4-Bromofluorobenzene	84.1	66.1-129		%REC	233581	1	11/22/2016 23:17	BN
Surr: Dibromofluoromethane	91.1	83.6-123		%REC	233581	1	11/22/2016 23:17	BN
Surr: Toluene-d8	93.7	81.8-118		%REC	233581	1	11/22/2016 23:17	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	TRIP BLANK 2
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/16/2016
Lab ID:	1611F49-015	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,1-Dichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,1-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,2-Dibromoethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,2-Dichloroethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,2-Dichloropropane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
2-Butanone	BRL	50		ug/L	233581	1	11/22/2016 23:46	BN
2-Hexanone	BRL	10		ug/L	233581	1	11/22/2016 23:46	BN
4-Methyl-2-pentanone	BRL	10		ug/L	233581	1	11/22/2016 23:46	BN
Acetone	BRL	50		ug/L	233581	1	11/22/2016 23:46	BN
Benzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Bromodichloromethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Bromoform	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Bromomethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Carbon disulfide	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Carbon tetrachloride	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Chlorobenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Chloroethane	BRL	10		ug/L	233581	1	11/22/2016 23:46	BN
Chloroform	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Chloromethane	BRL	10		ug/L	233581	1	11/22/2016 23:46	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Cyclohexane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Dibromochloromethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Dichlorodifluoromethane	BRL	10		ug/L	233581	1	11/22/2016 23:46	BN
Ethylbenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Freon-113	BRL	10		ug/L	233581	1	11/22/2016 23:46	BN
Isopropylbenzene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
m,p-Xylene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Methyl acetate	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Methylcyclohexane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Methylene chloride	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
o-Xylene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK 2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/16/2016
Lab ID: 1611F49-015	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Tetrachloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Toluene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Trichloroethene	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Trichlorofluoromethane	BRL	5.0		ug/L	233581	1	11/22/2016 23:46	BN
Vinyl chloride	BRL	2.0		ug/L	233581	1	11/22/2016 23:46	BN
Surr: 4-Bromofluorobenzene	83	66.1-129		%REC	233581	1	11/22/2016 23:46	BN
Surr: Dibromofluoromethane	86.6	83.6-123		%REC	233581	1	11/22/2016 23:46	BN
Surr: Toluene-d8	90.5	81.8-118		%REC	233581	1	11/22/2016 23:46	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Resolute / GA Bus

Work Order Number 1011F49

Checklist completed by Alana Judge 11/10/16
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 2,3 Cooler #2 2,1 Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by AJ

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233098

Sample ID: MB-233098	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330243							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 233098	Analysis Date: 11/17/2016	Seq No: 7178069							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diesel Range Organics	BRL	0.20									
Surr: Dioctylphthalate	0.06967	0	0.1000		69.7	47	119				

Sample ID: LCS-233098	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330243							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 233098	Analysis Date: 11/17/2016	Seq No: 7178070							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diesel Range Organics	1.074	0.20	1.000		107	51.3	122				
Surr: Dioctylphthalate	0.08794	0	0.1000		87.9	47	119				

Sample ID: LCSD-233098	Client ID:	Units: mg/L	Prep Date: 11/17/2016	Run No: 330243							
SampleType: LCSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 233098	Analysis Date: 11/17/2016	Seq No: 7178071							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diesel Range Organics	1.060	0.20	1.000		106	51.3	122	1.074	1.27	33.5	
Surr: Dioctylphthalate	0.09022	0	0.1000		90.2	47	119	0.08794	0	0	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233172

Sample ID: MB-233172	Client ID:	Units: ug/Kg	Prep Date: 11/18/2016	Run No: 330234							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181036							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	330									
2-Methylnaphthalene	BRL	330									
Acenaphthene	BRL	330									
Acenaphthylene	BRL	330									
Anthracene	BRL	330									
Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Benzo(g,h,i)perylene	BRL	330									
Benzo(k)fluoranthene	BRL	330									
Chrysene	BRL	330									
Dibenz(a,h)anthracene	BRL	330									
Fluoranthene	BRL	330									
Fluorene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Naphthalene	BRL	330									
Phenanthrene	BRL	330									
Pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1163	0	1667		69.8	56.7	120				
Surr: 4-Terphenyl-d14	1286	0	1667		77.2	60	120				
Surr: Nitrobenzene-d5	1275	0	1667		76.5	52.6	120				

Sample ID: LCS-233172	Client ID:	Units: ug/Kg	Prep Date: 11/18/2016	Run No: 330234							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181037							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1203	330	1667		72.2	66.4	120				
2-Methylnaphthalene	1155	330	1667		69.3	64.8	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233172

Sample ID: LCS-233172	Client ID:	Units: ug/Kg	Prep Date: 11/18/2016	Run No: 330234							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181037							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	1261	330	1667		75.6	70.1	120				
Acenaphthylene	1260	330	1667		75.6	68.5	120				
Anthracene	1257	330	1667		75.4	71.7	120				
Benz(a)anthracene	1344	330	1667		80.6	74.9	120				
Benzo(a)pyrene	1293	330	1667		77.6	64.3	120				
Benzo(b)fluoranthene	1490	330	1667		89.4	69.9	120				
Benzo(g,h,i)perylene	1333	330	1667		80.0	70.9	120				
Benzo(k)fluoranthene	1283	330	1667		77.0	67.3	120				
Chrysene	1303	330	1667		78.2	74.1	120				
Dibenz(a,h)anthracene	1327	330	1667		79.6	62.7	120				
Fluoranthene	1324	330	1667		79.4	74.6	120				
Fluorene	1259	330	1667		75.6	72.2	120				
Indeno(1,2,3-cd)pyrene	1325	330	1667		79.5	66.3	120				
Naphthalene	1209	330	1667		72.6	63.5	120				
Phenanthrene	1309	330	1667		78.5	73.5	120				
Pyrene	1314	330	1667		78.9	67.9	120				
Surr: 2-Fluorobiphenyl	1143	0	1667		68.6	56.7	120				
Surr: 4-Terphenyl-d14	1193	0	1667		71.6	60	120				
Surr: Nitrobenzene-d5	1141	0	1667		68.4	52.6	120				

Sample ID: 1611D75-008BMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330234							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181039							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1556	390	1960		79.4	61.1	120				
2-Methylnaphthalene	1507	390	1960		76.9	57.4	120				
Acenaphthene	1639	390	1960		83.6	60.2	120				
Acenaphthylene	1601	390	1960		81.7	59.9	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233172

Sample ID: 1611D75-008BMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330234							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181039							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	1682	390	1960		85.8	59.6	120				
Benz(a)anthracene	1774	390	1960		90.5	64.8	120				
Benzo(a)pyrene	1730	390	1960		88.3	56.1	120				
Benzo(b)fluoranthene	1931	390	1960		98.5	60	126				
Benzo(g,h,i)perylene	1766	390	1960		90.1	56.1	123				
Benzo(k)fluoranthene	1682	390	1960		85.8	55.2	120				
Chrysene	1753	390	1960		89.4	57.9	120				
Dibenz(a,h)anthracene	1717	390	1960		87.6	54.4	119				
Fluoranthene	1796	390	1960		91.6	58.3	119				
Fluorene	1652	390	1960		84.3	61.9	120				
Indeno(1,2,3-cd)pyrene	1714	390	1960		87.4	52.4	124				
Naphthalene	1534	390	1960		78.2	52.7	120				
Phenanthrene	1704	390	1960		86.9	57.7	120				
Pyrene	1750	390	1960		89.3	57.9	120				
Surr: 2-Fluorobiphenyl	1460	0	1960		74.5	56.7	120				
Surr: 4-Terphenyl-d14	1609	0	1960		82.1	60	120				
Surr: Nitrobenzene-d5	1531	0	1960		78.1	52.6	120				

Sample ID: 1611D75-008BMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330234							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181040							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1551	390	1960		79.1	61.1	120	1556	0.303	20	
2-Methylnaphthalene	1485	390	1960		75.8	57.4	120	1507	1.49	20.9	
Acenaphthene	1623	390	1960		82.8	60.2	120	1639	0.937	22.6	
Acenaphthylene	1570	390	1960		80.1	59.9	120	1601	1.98	26.3	
Anthracene	1603	390	1960		81.8	59.6	120	1682	4.82	24.5	
Benz(a)anthracene	1685	390	1960		86.0	64.8	120	1774	5.15	20.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233172

Sample ID: 1611D75-008BMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330234							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181040							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(a)pyrene	1594	390	1960		81.3	56.1	120	1730	8.21	21.1	
Benzo(b)fluoranthene	1825	390	1960		93.1	60	126	1931	5.66	23	
Benzo(g,h,i)perylene	1666	390	1960		85.0	56.1	123	1766	5.85	22.6	
Benzo(k)fluoranthene	1578	390	1960		80.5	55.2	120	1682	6.35	30	
Chrysene	1656	390	1960		84.5	57.9	120	1753	5.66	20.9	
Dibenz(a,h)anthracene	1625	390	1960		82.9	54.4	119	1717	5.49	26.9	
Fluoranthene	1690	390	1960		86.2	58.3	119	1796	6.07	26.6	
Fluorene	1537	390	1960		78.4	61.9	120	1652	7.23	23.8	
Indeno(1,2,3-cd)pyrene	1622	390	1960		82.8	52.4	124	1714	5.48	30.1	
Naphthalene	1527	390	1960		77.9	52.7	120	1534	0.436	22.1	
Phenanthrene	1616	390	1960		82.4	57.7	120	1704	5.31	25.8	
Pyrene	1639	390	1960		83.6	57.9	120	1750	6.57	25.2	
Surr: 2-Fluorobiphenyl	1496	0	1960		76.3	56.7	120	1460	0	0	
Surr: 4-Terphenyl-d14	1531	0	1960		78.1	60	120	1609	0	0	
Surr: Nitrobenzene-d5	1597	0	1960		81.5	52.6	120	1531	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233174

Sample ID: MB-233174	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330233							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233174	Analysis Date: 11/18/2016	Seq No: 7181133							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	10									
2-Methylnaphthalene	BRL	10									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Chrysene	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Naphthalene	BRL	10									
Phenanthrene	BRL	10									
Pyrene	BRL	10									
Surr: 2-Fluorobiphenyl	36.12	0	50.00		72.2	55.6	120				
Surr: 4-Terphenyl-d14	36.82	0	50.00		73.6	45.7	120				
Surr: Nitrobenzene-d5	39.36	0	50.00		78.7	56.9	120				

Sample ID: LCS-233174	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330233							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233174	Analysis Date: 11/18/2016	Seq No: 7181134							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	41.48	10	50.00		83.0	67.6	120				
2-Methylnaphthalene	39.33	10	50.00		78.7	65.5	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233174

Sample ID: LCS-233174	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330233							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233174	Analysis Date: 11/18/2016	Seq No: 7181134							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	43.29	10	50.00		86.6	70	120				
Acenaphthylene	43.39	10	50.00		86.8	70	120				
Anthracene	45.51	10	50.00		91.0	70	120				
Benz(a)anthracene	47.49	10	50.00		95.0	70	117				
Benzo(a)pyrene	46.74	10	50.00		93.5	70	117				
Benzo(b)fluoranthene	49.06	10	50.00		98.1	70	130				
Benzo(g,h,i)perylene	46.46	10	50.00		92.9	68.6	127				
Benzo(k)fluoranthene	46.07	10	50.00		92.1	70	120				
Chrysene	46.02	10	50.00		92.0	70	120				
Dibenz(a,h)anthracene	45.26	10	50.00		90.5	64.3	123				
Fluoranthene	47.90	10	50.00		95.8	70	120				
Fluorene	44.27	10	50.00		88.5	70	120				
Indeno(1,2,3-cd)pyrene	46.10	10	50.00		92.2	66.5	123				
Naphthalene	40.98	10	50.00		82.0	64.1	120				
Phenanthrene	46.16	10	50.00		92.3	70	120				
Pyrene	46.20	10	50.00		92.4	70	120				
Surr: 2-Fluorobiphenyl	39.16	0	50.00		78.3	55.6	120				
Surr: 4-Terphenyl-d14	42.52	0	50.00		85.0	45.7	120				
Surr: Nitrobenzene-d5	41.80	0	50.00		83.6	56.9	120				

Sample ID: 1611656-006BMS	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330233							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233174	Analysis Date: 11/19/2016	Seq No: 7181163							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	38.87	10	50.00		77.7	57.6	120				
2-Methylnaphthalene	37.66	10	50.00		75.3	52.1	120				
Acenaphthene	44.45	10	50.00		88.9	56.5	119				
Acenaphthylene	42.93	10	50.00		85.9	60.6	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233174

Sample ID: 1611656-006BMS	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330233							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233174	Analysis Date: 11/19/2016	Seq No: 7181163							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	45.30	10	50.00		90.6	60	121				
Benz(a)anthracene	46.05	10	50.00		92.1	70.9	122				
Benzo(a)pyrene	46.15	10	50.00		92.3	61.2	122				
Benzo(b)fluoranthene	47.92	10	50.00		95.8	66	133				
Benzo(g,h,i)perylene	44.67	10	50.00		89.3	59	131				
Benzo(k)fluoranthene	44.08	10	50.00		88.2	64	120				
Chrysene	46.28	10	50.00		92.6	70.8	120				
Dibenz(a,h)anthracene	44.36	10	50.00		88.7	55.5	127				
Fluoranthene	47.33	10	50.00		94.7	71.9	121				
Fluorene	43.94	10	50.00		87.9	64.4	118				
Indeno(1,2,3-cd)pyrene	44.71	10	50.00		89.4	58.1	128				
Naphthalene	36.71	10	50.00		73.4	51.3	120				
Phenanthrene	46.23	10	50.00		92.5	70.7	120				
Pyrene	46.44	10	50.00		92.9	60.9	123				
Surr: 2-Fluorobiphenyl	35.74	0	50.00		71.5	55.6	120				
Surr: 4-Terphenyl-d14	39.27	0	50.00		78.5	45.7	120				
Surr: Nitrobenzene-d5	21.39	0	50.00		42.8	56.9	120				S

Sample ID: 1611656-006BMSD	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330233							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233174	Analysis Date: 11/19/2016	Seq No: 7181164							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	36.00	10	50.00		72.0	57.6	120	38.87	7.67	23.3	
2-Methylnaphthalene	32.97	10	50.00		65.9	52.1	120	37.66	13.3	24	
Acenaphthene	39.76	10	50.00		79.5	56.5	119	44.45	11.1	20.7	
Acenaphthylene	39.22	10	50.00		78.4	60.6	120	42.93	9.03	20.5	
Anthracene	43.05	10	50.00		86.1	60	121	45.30	5.09	22.4	
Benz(a)anthracene	45.58	10	50.00		91.2	70.9	122	46.05	1.03	18.6	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233174

Sample ID: 1611656-006BMSD	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330233							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233174	Analysis Date: 11/19/2016	Seq No: 7181164							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(a)pyrene	45.18	10	50.00		90.4	61.2	122	46.15	2.12	22.2	
Benzo(b)fluoranthene	48.39	10	50.00		96.8	66	133	47.92	0.976	19.3	
Benzo(g,h,i)perylene	44.18	10	50.00		88.4	59	131	44.67	1.10	20.5	
Benzo(k)fluoranthene	42.05	10	50.00		84.1	64	120	44.08	4.71	19.7	
Chrysene	44.15	10	50.00		88.3	70.8	120	46.28	4.71	17.4	
Dibenz(a,h)anthracene	42.53	10	50.00		85.1	55.5	127	44.36	4.21	22.6	
Fluoranthene	45.95	10	50.00		91.9	71.9	121	47.33	2.96	20	
Fluorene	41.26	10	50.00		82.5	64.4	118	43.94	6.29	19.9	
Indeno(1,2,3-cd)pyrene	43.61	10	50.00		87.2	58.1	128	44.71	2.49	20.8	
Naphthalene	32.44	10	50.00		64.9	51.3	120	36.71	12.4	21.5	
Phenanthrene	43.54	10	50.00		87.1	70.7	120	46.23	5.99	20	
Pyrene	45.49	10	50.00		91.0	60.9	123	46.44	2.07	18.6	
Surr: 2-Fluorobiphenyl	33.50	0	50.00		67.0	55.6	120	35.74	0	0	
Surr: 4-Terphenyl-d14	39.45	0	50.00		78.9	45.7	120	39.27	0	0	
Surr: Nitrobenzene-d5	20.97	0	50.00		41.9	56.9	120	21.39	0	0	S

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233239

Sample ID: MB-233239	Client ID:	Units: mg/Kg	Prep Date: 11/18/2016	Run No: 330360							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 233239	Analysis Date: 11/18/2016	Seq No: 7181803							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	5.00									
Barium	BRL	5.00									
Cadmium	BRL	2.50									
Chromium	BRL	2.50									
Copper	BRL	2.50									
Lead	BRL	5.00									
Selenium	BRL	5.00									
Silver	BRL	2.50									

Sample ID: LCS-233239	Client ID:	Units: mg/Kg	Prep Date: 11/18/2016	Run No: 330360							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 233239	Analysis Date: 11/18/2016	Seq No: 7181804							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	41.16	5.00	50.00		82.3	80	120				
Barium	46.35	5.00	50.00		92.7	80	120				
Cadmium	43.33	2.50	50.00	0.04250	86.6	80	120				
Chromium	46.59	2.50	50.00	0.06450	93.1	80	120				
Copper	47.30	2.50	50.00		94.6	80	120				
Lead	44.37	5.00	50.00		88.7	80	120				
Silver	4.460	2.50	5.000		89.2	80	120				

Sample ID: LCS-233239	Client ID:	Units: mg/Kg	Prep Date: 11/18/2016	Run No: 330360							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 233239	Analysis Date: 11/21/2016	Seq No: 7182285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Selenium	40.28	5.00	50.00		80.6	80	120				
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233239

Sample ID: 1611C79-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 11/18/2016	Run No: 330360							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 233239	Analysis Date: 11/18/2016	Seq No: 7181808							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	34.58	3.96	39.65	0.3691	86.3	75	125				
Barium	47.93	3.96	39.65	8.457	99.6	75	125				
Cadmium	35.78	1.98	39.65	0.1179	89.9	75	125				
Chromium	41.85	1.98	39.65	3.368	97.1	75	125				
Copper	44.38	1.98	39.65	3.406	103	75	125				
Lead	49.90	3.96	39.65	8.310	105	75	125				
Selenium	28.91	3.96	39.65		72.9	75	125				S
Silver	3.635	1.98	3.965	0.01958	91.2	75	125				

Sample ID: 1611C79-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 11/18/2016	Run No: 330360							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 233239	Analysis Date: 11/18/2016	Seq No: 7181809							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	33.35	3.85	38.47	0.3691	85.7	75	125	34.58	3.62	20	
Barium	45.70	3.85	38.47	8.457	96.8	75	125	47.93	4.76	20	
Cadmium	35.19	1.92	38.47	0.1179	91.2	75	125	35.78	1.65	20	
Chromium	40.97	1.92	38.47	3.368	97.7	75	125	41.85	2.13	20	
Copper	42.59	1.92	38.47	3.406	102	75	125	44.38	4.13	20	
Lead	45.18	3.85	38.47	8.310	95.8	75	125	49.90	9.95	20	
Selenium	28.31	3.85	38.47		73.6	75	125	28.91	2.10	20	S
Silver	3.580	1.92	3.847	0.01958	92.6	75	125	3.635	1.51	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233249

Sample ID: MB-233249	Client ID:	Units: mg/Kg	Prep Date: 11/22/2016	Run No: 330347							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 233249	Analysis Date: 11/21/2016	Seq No: 7182058							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.833 0 3.300 85.8 50.1 122

Sample ID: LCS-233249	Client ID:	Units: mg/Kg	Prep Date: 11/22/2016	Run No: 330347							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 233249	Analysis Date: 11/21/2016	Seq No: 7182059							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 32.60 6.7 33.30 1.172 94.4 56.4 119
 Surr: Dioctylphthalate 2.603 0 3.330 78.2 50.1 122

Sample ID: 1611D77-007BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 11/22/2016	Run No: 330347							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 233249	Analysis Date: 11/21/2016	Seq No: 7184830							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 45.99 8.3 41.21 26.41 47.5 43.6 123
 Surr: Dioctylphthalate 3.268 0 4.121 79.3 50.1 122

Sample ID: 1611D77-007BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 11/22/2016	Run No: 330347							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 233249	Analysis Date: 11/21/2016	Seq No: 7184831							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 51.85 8.3 41.21 26.41 61.7 43.6 123 45.99 12.0 25.7
 Surr: Dioctylphthalate 3.375 0 4.121 81.9 50.1 122 3.268 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233338

Sample ID: MB-233338	Client ID:	Units: mg/L	Prep Date: 11/21/2016	Run No: 330389							
SampleType: MBLK	TestCode: Mercury, Total SW7470A	BatchID: 233338	Analysis Date: 11/21/2016	Seq No: 7182549							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00020

Sample ID: LCS-233338	Client ID:	Units: mg/L	Prep Date: 11/21/2016	Run No: 330389							
SampleType: LCS	TestCode: Mercury, Total SW7470A	BatchID: 233338	Analysis Date: 11/21/2016	Seq No: 7182550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.005295 0.00020 0.0050 106 80 120

Sample ID: 1611E70-002AMS	Client ID:	Units: mg/L	Prep Date: 11/21/2016	Run No: 330389							
SampleType: MS	TestCode: Mercury, Total SW7470A	BatchID: 233338	Analysis Date: 11/21/2016	Seq No: 7182552							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.005320 0.00020 0.0050 106 70 130

Sample ID: 1611E70-002AMSD	Client ID:	Units: mg/L	Prep Date: 11/21/2016	Run No: 330389							
SampleType: MSD	TestCode: Mercury, Total SW7470A	BatchID: 233338	Analysis Date: 11/21/2016	Seq No: 7182553							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.005284 0.00020 0.0050 106 70 130 0.005320 0.673 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233346

Sample ID: MB-233346	Client ID:	Units: ug/Kg	Prep Date: 11/18/2016	Run No: 330343							
SampleType: MBLK	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233346	Analysis Date: 11/18/2016	Seq No: 7181426							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
o-Xylene	BRL	1.0									
Toluene	BRL	1.0									
Surr: 4-Bromofluorobenzene	41.51	0	50.00		83.0	70	128				

Sample ID: MB-233346	Client ID:	Units: mg/Kg	Prep Date: 11/18/2016	Run No: 330346							
SampleType: MBLK	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233346	Analysis Date: 11/18/2016	Seq No: 7181549							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	BRL	0.50									
Surr: a.a.a-trifluorotoluene	0.06197	0	0.0500		124	69.8	134				

Sample ID: LCS-233346	Client ID:	Units: ug/Kg	Prep Date: 11/18/2016	Run No: 330343							
SampleType: LCS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233346	Analysis Date: 11/18/2016	Seq No: 7181427							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	55.86	1.0	50.00		112	72.3	130				
Ethylbenzene	57.83	1.0	50.00		116	70.4	130				
m,p-Xylene	118.1	1.0	100.0		118	70.1	130				
o-Xylene	58.36	1.0	50.00		117	70.1	128				
Toluene	55.61	1.0	50.00		111	71.1	130				
Surr: 4-Bromofluorobenzene	49.06	0	50.00		98.1	70	128				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233346

Sample ID: LCS-233346	Client ID:	Units: mg/Kg	Prep Date: 11/18/2016	Run No: 330346							
SampleType: LCS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233346	Analysis Date: 11/18/2016	Seq No: 7181550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	1.090	0.50	1.000		109	68.9	129				
Surr: a.a.a-trifluorotoluene	0.06326	0	0.0500		127	69.8	134				

Sample ID: 1611H47-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330343							
SampleType: MS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233346	Analysis Date: 11/18/2016	Seq No: 7181429							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	104.7	2.3	115.4		90.8	70.4	130				
Ethylbenzene	103.1	2.3	115.4		89.4	64.9	136				
m,p-Xylene	211.4	2.3	230.7		91.6	60.2	138				
o-Xylene	106.3	2.3	115.4		92.1	61.5	134				
Toluene	100.5	2.3	115.4		87.1	70.4	130				
Surr: 4-Bromofluorobenzene	109.1	0	115.4		94.6	70	128				

Sample ID: 1611H47-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 11/18/2016	Run No: 330346							
SampleType: MS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233346	Analysis Date: 11/18/2016	Seq No: 7181552							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	2.267	1.2	2.307		98.3	61.1	134				
Surr: a.a.a-trifluorotoluene	0.1465	0	0.1154		127	69.8	134				

Sample ID: 1611H47-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330343							
SampleType: MSD	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233346	Analysis Date: 11/18/2016	Seq No: 7181430							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	107.6	2.3	115.4		93.3	70.4	130	104.7	2.72	16.9	
Ethylbenzene	103.0	2.3	115.4		89.3	64.9	136	103.1	0.134	16.3	
m,p-Xylene	210.0	2.3	230.7		91.0	60.2	138	211.4	0.657	16.3	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233346

Sample ID: 1611H47-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330343							
SampleType: MSD	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233346	Analysis Date: 11/18/2016	Seq No: 7181430							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

o-Xylene	104.9	2.3	115.4		90.9	61.5	134	106.3	1.33	16.1	
Toluene	101.1	2.3	115.4		87.6	70.4	130	100.5	0.572	16.6	
Surr: 4-Bromofluorobenzene	105.4	0	115.4		91.4	70	128	109.1	0	0	

Sample ID: 1611H47-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 11/18/2016	Run No: 330346							
SampleType: MSD	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233346	Analysis Date: 11/18/2016	Seq No: 7181553							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	2.339	1.2	2.307		101	61.1	134	2.267	3.11	20	
Surr: a.a.a-trifluorotoluene	0.1472	0	0.1154		128	69.8	134	0.1465	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233364

Sample ID: MB-233364	Client ID:	Units: mg/L	Prep Date: 11/21/2016	Run No: 330463							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 233364	Analysis Date: 11/21/2016	Seq No: 7185103							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									

Sample ID: LCS-233364	Client ID:	Units: mg/L	Prep Date: 11/21/2016	Run No: 330463							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 233364	Analysis Date: 11/21/2016	Seq No: 7185104							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.020	0.0500	1.000		102	80	120				
Barium	0.9782	0.0200	1.000		97.8	80	120				
Cadmium	0.9788	0.0050	1.000		97.9	80	120				
Chromium	0.9889	0.0100	1.000		98.9	80	120				
Copper	0.9904	0.0100	1.000		99.0	80	120				
Lead	0.9875	0.0100	1.000		98.7	80	120				
Selenium	0.9926	0.0200	1.000		99.3	80	120				
Silver	0.09851	0.0100	0.1000		98.5	80	120				

Sample ID: 1611E54-002DMS	Client ID:	Units: mg/L	Prep Date: 11/21/2016	Run No: 330463							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 233364	Analysis Date: 11/21/2016	Seq No: 7185108							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.014	0.0500	1.000		101	75	125				
Barium	1.004	0.0200	1.000	0.07975	92.4	75	125				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233364

Sample ID: 1611E54-002DMS	Client ID:	Units: mg/L	Prep Date: 11/21/2016	Run No: 330463							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 233364	Analysis Date: 11/21/2016	Seq No: 7185108							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium	0.9630	0.0050	1.000	0.003210	96.0	75	125				
Chromium	0.9462	0.0100	1.000	0.0006600	94.6	75	125				
Copper	1.006	0.0100	1.000	0.03402	97.2	75	125				
Lead	0.9373	0.0100	1.000		93.7	75	125				
Selenium	0.9859	0.0200	1.000		98.6	75	125				
Silver	0.09536	0.0100	0.1000		95.4	75	125				

Sample ID: 1611E54-002DMSD	Client ID:	Units: mg/L	Prep Date: 11/21/2016	Run No: 330463							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 233364	Analysis Date: 11/21/2016	Seq No: 7185109							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.004	0.0500	1.000		100	75	125	1.014	1.05	20	
Barium	1.002	0.0200	1.000	0.07975	92.2	75	125	1.004	0.190	20	
Cadmium	0.9594	0.0050	1.000	0.003210	95.6	75	125	0.9630	0.381	20	
Chromium	0.9399	0.0100	1.000	0.0006600	93.9	75	125	0.9462	0.668	20	
Copper	1.005	0.0100	1.000	0.03402	97.1	75	125	1.006	0.128	20	
Lead	0.9265	0.0100	1.000		92.6	75	125	0.9373	1.16	20	
Selenium	0.9773	0.0200	1.000		97.7	75	125	0.9859	0.874	20	
Silver	0.09527	0.0100	0.1000		95.3	75	125	0.09536	0.094	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233378

Sample ID: MB-233378	Client ID:	Units: ug/Kg	Prep Date: 11/21/2016	Run No: 330383							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233378	Analysis Date: 11/21/2016	Seq No: 7183629							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233378

Sample ID: MB-233378	Client ID:	Units: ug/Kg	Prep Date: 11/21/2016	Run No: 330383							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233378	Analysis Date: 11/21/2016	Seq No: 7183629							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	44.57	0	50.00		89.1	70	128				
Surr: Dibromofluoromethane	44.20	0	50.00		88.4	78.2	128				
Surr: Toluene-d8	44.42	0	50.00		88.8	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233378

Sample ID: LCS-233378	Client ID:	Units: ug/Kg	Prep Date: 11/21/2016	Run No: 330383							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233378	Analysis Date: 11/21/2016	Seq No: 7183628							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	42.56	5.0	50.00		85.1	69.9	145				
Benzene	45.40	5.0	50.00		90.8	72.3	130				
Chlorobenzene	48.54	5.0	50.00		97.1	69	130				
Toluene	47.76	5.0	50.00		95.5	71.1	130				
Trichloroethene	50.99	5.0	50.00		102	71.7	136				
Surr: 4-Bromofluorobenzene	45.19	0	50.00		90.4	70	128				
Surr: Dibromofluoromethane	43.86	0	50.00		87.7	78.2	128				
Surr: Toluene-d8	45.21	0	50.00		90.4	76.5	116				

Sample ID: 1611I06-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/21/2016	Run No: 330383							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233378	Analysis Date: 11/21/2016	Seq No: 7183636							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	41.93	6.2	61.65		68.0	56.6	151				
Benzene	47.35	6.2	61.65		76.8	70.4	130				
Chlorobenzene	50.30	6.2	61.65		81.6	67.5	132				
Toluene	48.38	6.2	61.65		78.5	70.4	130				
Trichloroethene	51.22	6.2	61.65		83.1	70.1	137				
Surr: 4-Bromofluorobenzene	55.83	0	61.65		90.6	70	128				
Surr: Dibromofluoromethane	54.25	0	61.65		88.0	78.2	128				
Surr: Toluene-d8	55.15	0	61.65		89.5	76.5	116				

Sample ID: 1611I06-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/21/2016	Run No: 330383							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233378	Analysis Date: 11/21/2016	Seq No: 7183637							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.45	6.2	61.65		70.5	56.6	151	41.93	3.55	20.4	
Benzene	46.42	6.2	61.65		75.3	70.4	130	47.35	1.97	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233378

Sample ID: 1611I06-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/21/2016	Run No: 330383							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233378	Analysis Date: 11/21/2016	Seq No: 7183637							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	49.82	6.2	61.65		80.8	67.5	132	50.30	0.960	14.6	
Toluene	47.91	6.2	61.65		77.7	70.4	130	48.38	0.973	16.6	
Trichloroethene	50.28	6.2	61.65		81.6	70.1	137	51.22	1.85	17	
Surr: 4-Bromofluorobenzene	55.64	0	61.65		90.3	70	128	55.83	0	0	
Surr: Dibromofluoromethane	54.68	0	61.65		88.7	78.2	128	54.25	0	0	
Surr: Toluene-d8	55.11	0	61.65		89.4	76.5	116	55.15	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233460

Sample ID: MB-233460	Client ID:	Units: mg/Kg	Prep Date: 11/22/2016	Run No: 330490							
SampleType: MBLK	TestCode: TOTAL MERCURY SW7471B	BatchID: 233460	Analysis Date: 11/22/2016	Seq No: 7185558							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: LCS-233460	Client ID:	Units: mg/Kg	Prep Date: 11/22/2016	Run No: 330490							
SampleType: LCS	TestCode: TOTAL MERCURY SW7471B	BatchID: 233460	Analysis Date: 11/22/2016	Seq No: 7185559							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.3937 0.100 0.4000 98.4 80 120

Sample ID: 1611F67-001CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 11/22/2016	Run No: 330490							
SampleType: MS	TestCode: TOTAL MERCURY SW7471B	BatchID: 233460	Analysis Date: 11/22/2016	Seq No: 7185561							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.4215 0.104 0.4162 0.02190 96.0 70 130

Sample ID: 1611F67-001CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 11/22/2016	Run No: 330490							
SampleType: MSD	TestCode: TOTAL MERCURY SW7471B	BatchID: 233460	Analysis Date: 11/22/2016	Seq No: 7185562							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.4044 0.103 0.4125 0.02190 92.7 70 130 0.4215 4.14 30

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233581

Sample ID: MB-233581	Client ID:	Units: ug/L	Prep Date: 11/22/2016	Run No: 330502							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233581	Analysis Date: 11/22/2016	Seq No: 7185977							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233581

Sample ID: MB-233581	Client ID:	Units: ug/L	Prep Date: 11/22/2016	Run No: 330502							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233581	Analysis Date: 11/22/2016	Seq No: 7185977							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	39.66	0	50.00		79.3	66.1	129				
Surr: Dibromofluoromethane	47.77	0	50.00		95.5	83.6	123				
Surr: Toluene-d8	48.83	0	50.00		97.7	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233581

Sample ID: LCS-233581	Client ID:	Units: ug/L	Prep Date: 11/22/2016	Run No: 330502							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233581	Analysis Date: 11/22/2016	Seq No: 7185972							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.20	5.0	50.00		102	68	139				
Benzene	53.85	5.0	50.00		108	74	125				
Chlorobenzene	48.16	5.0	50.00		96.3	75.7	123				
Toluene	54.27	5.0	50.00		109	75.9	126				
Trichloroethene	52.91	5.0	50.00		106	70.6	129				
Surr: 4-Bromofluorobenzene	40.29	0	50.00		80.6	66.1	129				
Surr: Dibromofluoromethane	47.48	0	50.00		95.0	83.6	123				
Surr: Toluene-d8	45.22	0	50.00		90.4	81.8	118				

Sample ID: 1611F49-004AMS	Client ID: GW-21	Units: ug/L	Prep Date: 11/22/2016	Run No: 330549							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233581	Analysis Date: 11/22/2016	Seq No: 7187624							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	396.0	50	500.0		79.2	64.3	149				
Benzene	403.3	50	500.0		80.7	71.6	132				
Chlorobenzene	407.4	50	500.0		81.5	73.1	126				
Toluene	411.1	50	500.0		82.2	72.5	135				
Trichloroethene	389.1	50	500.0		77.8	70.2	132				
Surr: 4-Bromofluorobenzene	421.8	0	500.0		84.4	66.1	129				
Surr: Dibromofluoromethane	479.2	0	500.0		95.8	83.6	123				
Surr: Toluene-d8	429.5	0	500.0		85.9	81.8	118				

Sample ID: 1611F49-004AMSD	Client ID: GW-21	Units: ug/L	Prep Date: 11/22/2016	Run No: 330549							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233581	Analysis Date: 11/22/2016	Seq No: 7187626							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	355.2	50	500.0		71.0	64.3	149	396.0	10.9	30.8	
Benzene	395.0	50	500.0		79.0	71.6	132	403.3	2.08	20.7	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233581

Sample ID: 1611F49-004AMSD	Client ID: GW-21	Units: ug/L	Prep Date: 11/22/2016	Run No: 330549							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233581	Analysis Date: 11/22/2016	Seq No: 7187626							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	392.2	50	500.0		78.4	73.1	126	407.4	3.80	26.6	
Toluene	396.8	50	500.0		79.4	72.5	135	411.1	3.54	23.2	
Trichloroethene	390.1	50	500.0		78.0	70.2	132	389.1	0.257	27.7	
Surr: 4-Bromofluorobenzene	407.4	0	500.0		81.5	66.1	129	421.8	0	0	
Surr: Dibromofluoromethane	466.1	0	500.0		93.2	83.6	123	479.2	0	0	
Surr: Toluene-d8	449.8	0	500.0		90.0	81.8	118	429.5	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233747

Sample ID: MB-233747	Client ID:	Units: ug/L	Prep Date: 11/27/2016	Run No: 330816							
SampleType: MBLK	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233747	Analysis Date: 11/27/2016	Seq No: 7195583							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
o-Xylene	BRL	1.0									
Toluene	BRL	1.0									
Surr: 4-Bromofluorobenzene	44.91	0	50.00		89.8	66.1	129				

Sample ID: MB-233747	Client ID:	Units: mg/L	Prep Date: 11/27/2016	Run No: 330817							
SampleType: MBLK	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233747	Analysis Date: 11/27/2016	Seq No: 7195640							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	BRL	0.50									
Surr: a.a.a-trifluorotoluene	0.05352	0	0.0500		107	75.1	120				

Sample ID: LCS-233747	Client ID:	Units: mg/L	Prep Date: 11/27/2016	Run No: 330817							
SampleType: LCS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233747	Analysis Date: 11/27/2016	Seq No: 7195639							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	0.7705	0.50	1.000		77.0	69.9	126				
Surr: a.a.a-trifluorotoluene	0.05396	0	0.0500		108	75.1	120				

Sample ID: LCS-233747	Client ID:	Units: ug/L	Prep Date: 11/27/2016	Run No: 330792							
SampleType: LCS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233747	Analysis Date: 11/28/2016	Seq No: 7196225							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	53.75	1.0	50.00		108	74	125				
Ethylbenzene	55.70	1.0	50.00		111	80.9	121				
m,p-Xylene	109.2	1.0	100.0		109	80.3	126				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233747

Sample ID: LCS-233747	Client ID:	Units: ug/L	Prep Date: 11/27/2016	Run No: 330792							
SampleType: LCS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233747	Analysis Date: 11/28/2016	Seq No: 7196225							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

o-Xylene	53.54	1.0	50.00		107	76.9	129				
Toluene	53.94	1.0	50.00		108	75.9	126				
Surr: 4-Bromofluorobenzene	50.61	0	50.00		101	66.1	129				

Sample ID: 1611K43-001AMS	Client ID:	Units: ug/L	Prep Date: 11/27/2016	Run No: 330816							
SampleType: MS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233747	Analysis Date: 11/27/2016	Seq No: 7195587							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	55.12	1.0	50.00		110	71.6	132				
Ethylbenzene	53.31	1.0	50.00		107	81.2	130				
m,p-Xylene	105.9	1.0	100.0		106	76	139				
o-Xylene	55.83	1.0	50.00		112	76.8	137				
Toluene	47.08	1.0	50.00		94.2	72.5	135				
Surr: 4-Bromofluorobenzene	52.81	0	50.00		106	66.1	129				

Sample ID: 1611K43-001AMS	Client ID:	Units: mg/L	Prep Date: 11/27/2016	Run No: 330817							
SampleType: MS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233747	Analysis Date: 11/27/2016	Seq No: 7195642							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	0.8282	0.50	1.000		82.8	65.8	133				
Surr: a.a.a-trifluorotoluene	0.05280	0	0.0500		106	75.1	120				

Sample ID: 1611K43-001AMSD	Client ID:	Units: ug/L	Prep Date: 11/27/2016	Run No: 330816							
SampleType: MSD	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233747	Analysis Date: 11/27/2016	Seq No: 7195590							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	55.62	1.0	50.00		111	71.6	132	55.12	0.903	20.7	
Ethylbenzene	53.13	1.0	50.00		106	81.2	130	53.31	0.338	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611F49

ANALYTICAL QC SUMMARY REPORT

BatchID: 233747

Sample ID: 1611K43-001AMSD	Client ID:	Units: ug/L	Prep Date: 11/27/2016	Run No: 330816							
SampleType: MSD	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233747	Analysis Date: 11/27/2016	Seq No: 7195590							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

m,p-Xylene	105.8	1.0	100.0		106	76	139	105.9	0.066	20	
o-Xylene	54.88	1.0	50.00		110	76.8	137	55.83	1.72	20	
Toluene	46.88	1.0	50.00		93.8	72.5	135	47.08	0.426	23.2	
Surr: 4-Bromofluorobenzene	53.24	0	50.00		106	66.1	129	52.81	0	0	

Sample ID: 1611K43-001AMSD	Client ID:	Units: mg/L	Prep Date: 11/27/2016	Run No: 330817							
SampleType: MSD	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233747	Analysis Date: 11/27/2016	Seq No: 7195643							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	0.8517	0.50	1.000		85.2	65.8	133	0.8282	2.81	20	
Surr: a.a.a-trifluorotoluene	0.05364	0	0.0500		107	75.1	120	0.05280	0	0	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



December 19, 2016

Stephen Wilson
Resolute Env. & Water Resources Consulting, LLC
1001 Weatherstone Pkwy
Woodstock GA 30188

TEL: (678) 232-9499
FAX: (888) 881-8219

RE: Plant Kraft Phase II

Dear Stephen Wilson:

Order No: 1612B20

Analytical Environmental Services, Inc. received 4 samples on 12/12/2016 8:59:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Ioana Pacurar
Project Manager

Analytical Environmental Services, Inc

Date: 19-Dec-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-8-N
Project Name: Plant Kraft Phase II	Collection Date: 12/9/2016 3:40:00 PM
Lab ID: 1612B20-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	19	11		mg/Kg-dry	234837	1	12/15/2016 13:47	RF
Surr: Dioctylphthalate	82.3	50.1-122		%REC	234837	1	12/15/2016 13:47	RF
PERCENT MOISTURE D2216								
Percent Moisture	37.8	0		wt%	R332358	1	12/16/2016 10:00	BD

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL Below reporting limit	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	Narr See case narrative
N Analyte not NELAC certified	NC Not confirmed
B Analyte detected in the associated method blank	< Less than Result value
> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Dec-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-8-E
Project Name: Plant Kraft Phase II	Collection Date: 12/9/2016 3:45:00 PM
Lab ID: 1612B20-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	50	11		mg/Kg-dry	234837	1	12/15/2016 14:10	RF
Surr: Dioctylphthalate	86.6	50.1-122		%REC	234837	1	12/15/2016 14:10	RF
PERCENT MOISTURE D2216								
Percent Moisture	37.2	0		wt%	R332358	1	12/16/2016 10:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Dec-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-8-S
Project Name: Plant Kraft Phase II	Collection Date: 12/9/2016 3:50:00 PM
Lab ID: 1612B20-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	1300	75		mg/Kg-dry	234837	10	12/15/2016 15:19	RF
Surr: Dioctylphthalate	87.5	50.1-122		%REC	234837	1	12/15/2016 14:57	RF
PERCENT MOISTURE D2216								
Percent Moisture	11.2	0		wt%	R332358	1	12/16/2016 10:00	BD

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Dec-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-8-W
Project Name: Plant Kraft Phase II	Collection Date: 12/9/2016 3:55:00 PM
Lab ID: 1612B20-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	230	7.5		mg/Kg-dry	234837	1	12/15/2016 14:33	RF
Surr: Dioctylphthalate	85.2	50.1-122		%REC	234837	1	12/15/2016 14:33	RF
PERCENT MOISTURE D2216								
Percent Moisture	10.3	0		wt%	R332358	1	12/16/2016 10:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Resolute

Work Order Number 101232

Checklist completed by [Signature] Date 12/12/16

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No
Cooler #1 3.9° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Plant Kraft Phase II
Workorder: 1612B20

ANALYTICAL QC SUMMARY REPORT

BatchID: 234837

Sample ID: MB-234837	Client ID:	Units: mg/Kg	Prep Date: 12/14/2016	Run No: 332195							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 234837	Analysis Date: 12/14/2016	Seq No: 7234412							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.672 0 3.300 81.0 50.1 122

Sample ID: LCS-234837	Client ID:	Units: mg/Kg	Prep Date: 12/14/2016	Run No: 332195							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 234837	Analysis Date: 12/14/2016	Seq No: 7234413							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 28.91 6.7 33.30 1.281 83.0 56.4 119
 Surr: Dioctylphthalate 2.669 0 3.330 80.1 50.1 122

Sample ID: 1612B20-002AMS	Client ID: SB-8-E	Units: mg/Kg-dry	Prep Date: 12/14/2016	Run No: 332293							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 234837	Analysis Date: 12/16/2016	Seq No: 7242698							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 86.95 11 52.98 49.84 70.0 40.6 122
 Surr: Dioctylphthalate 4.492 0 5.298 84.8 54.5 121

Sample ID: 1612B20-002AMSD	Client ID: SB-8-E	Units: mg/Kg-dry	Prep Date: 12/14/2016	Run No: 332293							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 234837	Analysis Date: 12/16/2016	Seq No: 7242699							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 91.30 11 52.98 49.84 78.3 40.6 122 86.95 4.88 29.9
 Surr: Dioctylphthalate 4.137 0 5.298 78.1 54.5 121 4.492 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



December 14, 2016

Stephen Wilson
Resolute Env. & Water Resources Consulting, LLC
1001 Weatherstone Pkwy
Woodstock GA 30188

TEL: (678) 232-9499
FAX: (888) 881-8219

RE: Plant Kraft Phase 2

Dear Stephen Wilson:

Order No: 1612B62

Analytical Environmental Services, Inc. received 2 samples on 12/12/2016 8:59:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Ioana Pacurar
Project Manager

Client: Resolute Env. & Water Resources Consulting, LLC
Project: Plant Kraft Phase 2
Lab ID: 1612B62

Case Narrative

Sample Receiving Non-conformance:

Turnaround time was adjusted from standard 5 day to next day per client request.

Analytical Environmental Services, Inc

Date: 14-Dec-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-36-14
Project Name: Plant Kraft Phase 2	Collection Date: 12/9/2016 11:35:00 AM
Lab ID: 1612B62-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D					(SW3010A)			
Lead	BRL	0.0100		mg/L	234677	1	12/13/2016 16:19	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Dec-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-18
Project Name: Plant Kraft Phase 2	Collection Date: 12/10/2016 11:51:00 AM
Lab ID: 1612B62-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D					(SW3010A)			
Lead	BRL	0.0100		mg/L	234677	1	12/13/2016 13:33	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Resolute

Work Order Number 1612B62

Checklist completed by Das Mesardi 12/12/16
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 39° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by Pm

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Plant Kraft Phase 2
Workorder: 1612B62

ANALYTICAL QC SUMMARY REPORT

BatchID: 234677

Sample ID: MB-234677	Client ID:	Units: mg/L	Prep Date: 12/12/2016	Run No: 331978							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 234677	Analysis Date: 12/13/2016	Seq No: 7228889							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 0.0100

Sample ID: LCS-234677	Client ID:	Units: mg/L	Prep Date: 12/12/2016	Run No: 331978							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 234677	Analysis Date: 12/13/2016	Seq No: 7228889							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 1.023 0.0100 1.000 102 80 120

Sample ID: 1612B62-001AMS	Client ID: SB-36-14	Units: mg/L	Prep Date: 12/12/2016	Run No: 331978							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 234677	Analysis Date: 12/13/2016	Seq No: 7228892							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9143 0.0100 1.000 0.01028 90.4 75 125

Sample ID: 1612B62-001AMSD	Client ID: SB-36-14	Units: mg/L	Prep Date: 12/12/2016	Run No: 331978							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 234677	Analysis Date: 12/13/2016	Seq No: 7228893							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9067 0.0100 1.000 0.01028 89.6 75 125 0.9143 0.831 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



February 13, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Troutman Sanders Plant Kraft

Dear Leah Millet:

Order No: 1702379

Analytical Environmental Services, Inc. received 4 samples on 2/6/2017 8:13:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1702379

Date: _____ Page 1 of _____

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd Atlanta, GA 30308</u>					ANALYSIS REQUESTED										Visit our website <u>www.aesatlanta.com</u> to check on the status of your results, place bottle orders, etc.		No # of Containers																	
PHONE: <u>678.732.9499</u>		FAX: <u>-</u>					<table border="1" style="width:100%; height: 100%; text-align: center;"> <tr><td colspan="10">DRO</td></tr> <tr><td colspan="10">boils</td></tr> </table>													DRO										boils						
DRO																																				
boils																																				
SAMPLED BY: <u>Michael Putinkin (Resolute) Forrest Howard</u>		SIGNATURE:					PRESERVATION (See codes)										REMARKS																			
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)																														
		DATE	TIME																																	
<u>1</u>	<u>SB-8-S-25</u>	<u>02/01/17</u>	<u>0935</u>	<u>X</u>		<u>SO</u>	<u>X</u>																													
<u>2</u>	<u>SB-8-S-50</u>	<u>02/01/17</u>	<u>0940</u>	<u>X</u>		<u>SO</u>	<u>X</u>																													
<u>3</u>	<u>SB-8-W-25</u>	<u>02/01/17</u>	<u>0945</u>	<u>X</u>		<u>SO</u>	<u>X</u>																													
<u>4</u>	<u>SB-8-W-50</u>	<u>02/01/17</u>	<u>0949</u>	<u>X</u>		<u>SO</u>	<u>X</u>																													
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RELINQUISHED BY:		DATE/TIME: <u>2/1/17 0813</u>	RECEIVED BY:		DATE/TIME: <u>2/1/17 813</u>	PROJECT INFORMATION										RECEIPT																				
1:			2:			PROJECT NAME: <u>Trotman Sanchez Plant kraft</u>										Total # of Containers																				
2:			3:			PROJECT #: <u>155</u> AST site investigation										Turnaround Time Request																				
3:						SITE ADDRESS: <u>155 Crossgate Rd Pantwrench, GA</u>										<input checked="" type="checkbox"/> Standard 5 Business Days																				
						SEND REPORT TO: <u>Stephen.Wilson@resoluteenv.com</u>										<input type="checkbox"/> 2 Business Day Rush																				
						INVOICE TO: <u>Michael.Putinkin@resoluteenv.com</u>										<input type="checkbox"/> Next Business Day Rush																				
						(IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same Day Rush (auth req.)																				
						<u>Lera Millet (Georgia Power)</u>										<input type="checkbox"/> Other _____																				
						QUOTE #: _____ PO#: _____										STATE PROGRAM (if any): <u>HSRA</u>																				
																E-mail? _____ Fax? _____																				
																DATA PACKAGE: I <input type="radio"/> II <input checked="" type="radio"/> III <input type="radio"/> IV <input type="radio"/>																				

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 10-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-8-S-25
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 9:35:00 AM
Lab ID: 1702379-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	300	89		mg/Kg-dry	237559	10	02/09/2017 15:39	RS
Surr: Dioctylphthalate	87.4	54.5-121		%REC	237559	10	02/09/2017 15:39	RS
PERCENT MOISTURE D2216								
Percent Moisture	24.6	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-8-S-50
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 9:40:00 AM
Lab ID: 1702379-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	26	10		mg/Kg-dry	237559	1	02/10/2017 09:31	RS
Surr: Dioctylphthalate	88.5	54.5-121		%REC	237559	1	02/10/2017 09:31	RS
PERCENT MOISTURE D2216								
Percent Moisture	32.8	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-8-W-25
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 9:45:00 AM
Lab ID: 1702379-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	36	10		mg/Kg-dry	237559	1	02/10/2017 07:52	RS
Surr: Dioctylphthalate	82.8	54.5-121		%REC	237559	1	02/10/2017 07:52	RS
PERCENT MOISTURE D2216								
Percent Moisture	34.5	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-8-W-50
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 9:49:00 AM
Lab ID: 1702379-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
DIESEL RANGE ORGANICS SW8015C					(SW3550C)			
TPH (Diesel Range Organics)	BRL	8.9		mg/Kg-dry	237559	1	02/09/2017 23:42	RS
Surr: Dioctylphthalate	77.2	54.5-121		%REC	237559	1	02/09/2017 23:42	RS
PERCENT MOISTURE D2216								
Percent Moisture	24.4	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Troutman Sanders Plant Kraft
Workorder: 1702379

ANALYTICAL QC SUMMARY REPORT

BatchID: 237559

Sample ID: MB-237559	Client ID:	Units: mg/Kg	Prep Date: 02/08/2017	Run No: 336039							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 237559	Analysis Date: 02/09/2017	Seq No: 7337386							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.641 0 3.300 80.0 54.5 121

Sample ID: LCS-237559	Client ID:	Units: mg/Kg	Prep Date: 02/08/2017	Run No: 336039							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 237559	Analysis Date: 02/09/2017	Seq No: 7337387							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 27.35 6.7 33.30 2.138 75.7 54.6 120
 Surr: Dioctylphthalate 2.617 0 3.330 78.6 54.5 121

Sample ID: 1702334-004BMS	Client ID: B1-03-D	Units: mg/Kg-dry	Prep Date: 02/08/2017	Run No: 336039							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 237559	Analysis Date: 02/09/2017	Seq No: 7337393							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 491.6 76 37.84 912.1 -1110 40.6 122 S
 Surr: Dioctylphthalate 1.905 0 3.784 50.3 54.5 121 S

Sample ID: 1702334-004BMSD	Client ID: B1-03-D	Units: mg/Kg-dry	Prep Date: 02/08/2017	Run No: 336039							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 237559	Analysis Date: 02/09/2017	Seq No: 7337394							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 630.5 76 37.84 912.1 -744 40.6 122 491.6 24.8 29.9 S
 Surr: Dioctylphthalate 2.315 0 3.784 61.2 54.5 121 1.905 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



February 13, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Troutman Sanders Plant Kraft

Dear Leah Millet:

Order No: 1702380

Analytical Environmental Services, Inc. received 10 samples on 2/6/2017 8:13:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Tyrel Heckendorf
Project Manager



COMPANY: GEORGIA POWER COMPANY		ADDRESS: 241 RALPH MCGILL BLVD ATLANTA, GA 30302		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers																																								
PHONE: 678.232.9499		FAX: ---		<table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="20">PRESERVATION (See codes)</td> </tr> </table>																														PRESERVATION (See codes)																			
PRESERVATION (See codes)																																																					
SAMPLED BY: MICHAEL PATRICKIN (480024) FORREST HOWARD		SIGNATURE:		REMARKS																																																	
#	SAMPLE ID	SAMPLED			Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS																																					
		DATE	TIME																																																		
1	SB-50-2-4-5	02/01/17	1030	X		SO	X																																														
2	SB-50-4-2-3	02/01/17	1111	X		SO	X																																														
3	SB-51-7B-2-3.2	02/01/17	1330	X		SO	X																																														
4	SB-50-3-0.5-1.1	02/01/17	1057	X		SO	X																																														
5	SB-37-11B-0-4	02/01/17	1130	X	X	SO	X																																														
6	SB-51-2B-1.4-1.9	02/01/17	1426	X		SO	X																																														
7	SB-15-3B-0-4	02/01/17	1400	X	X	SO	X																																														
8	KMW-6B-1.6-2.2	02/01/17	1456	X		SO	X																																														
9	KMW-7B-0-4	02/01/17	1500	X	X	SO	X																																														
10	SB-44-7B-0.6-1.6	02/01/17	1620	X		SO	X																																														
11																																																					
12																																																					
13																																																					
14																																																					
RELINQUISHED BY: MICHAEL PATRICKIN		DATE/TIME: 2/2/17 1100		RECEIVED BY: Forrest Howard		DATE/TIME: 2/2/17 1100		PROJECT INFORMATION								RECEIPT																																					
1: MICHAEL PATRICKIN		2/2/17 1100		1: Forrest Howard		2/2/17 1100		PROJECT NAME: TROUTMAN SANDERS PLANT KRAFT								Total # of Containers																																					
2:		2/6/17 0815		2:		2/6/17 813		PROJECT #: BURIED CCR INVESTIGATION								Turnaround Time Request																																					
3:				3:				SITE ADDRESS: 155 CROSSCREEK ROAD PORT WENTWORTH, GA								<input checked="" type="checkbox"/> Standard 5 Business Days																																					
								SEND REPORT TO: STEPHEN WILSON (800) RESOLUTION.COM								<input type="checkbox"/> 2 Business Day Rush																																					
								INVOICE TO: MICHAEL.PATRICKIN@AESATLANTA.COM								<input type="checkbox"/> Next Business Day Rush																																					
								(IF DIFFERENT FROM ABOVE) LEA MILLET (GEORGIA POWER)								<input type="checkbox"/> Same Day Rush (auth req.)																																					
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD:		OUT / / VIA:										STATE PROGRAM (if any): HERA																																					
						IN / / VIA:										E-mail? _____ Fax? _____																																					
				<input checked="" type="checkbox"/> CLIENT FedEx UPS MAIL COURIER		GREYHOUND OTHER _____										DATA PACKAGE: <input type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> O																																					

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

Analytical Environmental Services, Inc

Date: 13-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-50-2-4-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 10:30:00 AM
Lab ID: 1702380-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	0.236	0.144		mg/Kg-dry	237499	1	02/07/2017 14:27	JR
METALS, TOTAL SW6010D					(SW3050B)			
Antimony	BRL	8.35		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Arsenic	111	8.35		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Barium	1400	83.5		mg/Kg-dry	237732	10	02/10/2017 20:53	IO
Beryllium	4.72	4.17		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Cadmium	BRL	4.17		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Chromium	20.0	4.17		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Copper	76.3	4.17		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Lead	12.4	8.35		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Nickel	27.9	8.35		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Selenium	11.0	8.35		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Silver	BRL	4.17		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Thallium	BRL	8.35		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
Zinc	24.0	8.35		mg/Kg-dry	237732	1	02/10/2017 17:07	IO
PERCENT MOISTURE D2216								
Percent Moisture	40.6	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-50-4-2-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 11:11:00 AM
Lab ID: 1702380-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.146		mg/Kg-dry	237499	1	02/07/2017 14:29	JR
METALS, TOTAL SW6010D					(SW3050B)			
Antimony	BRL	7.89		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Arsenic	88.7	7.89		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Barium	711	7.89		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Beryllium	5.11	3.94		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Cadmium	BRL	3.94		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Chromium	28.4	3.94		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Copper	70.4	3.94		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Lead	17.7	7.89		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Nickel	27.1	7.89		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Selenium	BRL	7.89		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Silver	BRL	3.94		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Thallium	BRL	7.89		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
Zinc	24.5	7.89		mg/Kg-dry	237732	1	02/10/2017 17:11	IO
PERCENT MOISTURE D2216								
Percent Moisture	37.1	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-51-7B-2-3.2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 1:30:00 PM
Lab ID: 1702380-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	0.160	0.134		mg/Kg-dry	237499	1	02/07/2017 14:31	JR
METALS, TOTAL SW6010D					(SW3050B)			
Antimony	BRL	7.20		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Arsenic	74.3	7.20		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Barium	613	7.20		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Beryllium	BRL	3.60		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Cadmium	BRL	3.60		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Chromium	18.2	3.60		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Copper	48.8	3.60		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Lead	11.0	7.20		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Nickel	22.7	7.20		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Selenium	BRL	7.20		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Silver	BRL	3.60		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Thallium	BRL	7.20		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
Zinc	17.1	7.20		mg/Kg-dry	237732	1	02/10/2017 17:15	IO
PERCENT MOISTURE D2216								
Percent Moisture	36.3	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-50-3-0.5-1.1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 10:57:00 AM
Lab ID: 1702380-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.150		mg/Kg-dry	237499	1	02/07/2017 14:33	JR
METALS, TOTAL SW6010D					(SW3050B)			
Antimony	BRL	7.34		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Arsenic	56.2	7.34		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Barium	411	7.34		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Beryllium	BRL	3.67		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Cadmium	BRL	3.67		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Chromium	18.1	3.67		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Copper	40.6	3.67		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Lead	12.2	7.34		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Nickel	22.3	7.34		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Selenium	BRL	7.34		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Silver	BRL	3.67		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Thallium	BRL	7.34		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
Zinc	30.5	7.34		mg/Kg-dry	237732	1	02/10/2017 19:50	IO
PERCENT MOISTURE D2216								
Percent Moisture	33.6	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-37-11B-0-4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 11:30:00 AM
Lab ID: 1702380-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	0.164	0.125		mg/Kg-dry	237499	1	02/07/2017 14:35	JR
METALS, TOTAL SW6010D					(SW3050B)			
Antimony	BRL	5.92		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Arsenic	19.4	5.92		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Barium	103	5.92		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Beryllium	BRL	2.96		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Cadmium	BRL	2.96		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Chromium	10.1	2.96		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Copper	22.6	2.96		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Lead	50.9	5.92		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Nickel	19.8	5.92		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Selenium	BRL	5.92		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Silver	BRL	2.96		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Thallium	BRL	5.92		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
Zinc	527	5.92		mg/Kg-dry	237732	1	02/10/2017 19:54	IO
PERCENT MOISTURE D2216								
Percent Moisture	22.3	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-51-2B-1.4-1.9
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 2:20:00 PM
Lab ID: 1702380-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.109		mg/Kg-dry	237499	1	02/07/2017 14:38	JR
METALS, TOTAL SW6010D					(SW3050B)			
Antimony	BRL	5.89		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Arsenic	39.3	5.89		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Barium	315	5.89		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Beryllium	BRL	2.95		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Cadmium	BRL	2.95		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Chromium	12.9	2.95		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Copper	29.9	2.95		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Lead	9.07	5.89		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Nickel	15.4	5.89		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Selenium	BRL	5.89		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Silver	BRL	2.95		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Thallium	BRL	5.89		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
Zinc	17.1	5.89		mg/Kg-dry	237732	1	02/10/2017 19:58	IO
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-15-3B-0-4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 2:00:00 PM
Lab ID: 1702380-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.110		mg/Kg-dry	237499	1	02/07/2017 14:11	JR
METALS, TOTAL SW6010D					(SW3050B)			
Antimony	BRL	5.73		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Arsenic	BRL	5.73		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Barium	42.3	5.73		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Beryllium	BRL	2.86		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Cadmium	BRL	2.86		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Chromium	5.30	2.86		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Copper	5.08	2.86		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Lead	12.4	5.73		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Nickel	11.4	5.73		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Selenium	BRL	5.73		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Silver	BRL	2.86		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Thallium	BRL	5.73		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
Zinc	20.7	5.73		mg/Kg-dry	237732	1	02/10/2017 20:02	IO
PERCENT MOISTURE D2216								
Percent Moisture	13.5	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Feb-17

Client: Georgia Power Company	Client Sample ID: KMW-6B-1.6-2.2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 2:50:00 PM
Lab ID: 1702380-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.124		mg/Kg-dry	237499	1	02/07/2017 14:40	JR
METALS, TOTAL SW6010D					(SW3050B)			
Antimony	BRL	5.93		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Arsenic	89.9	5.93		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Barium	223	5.93		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Beryllium	BRL	2.97		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Cadmium	BRL	2.97		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Chromium	13.4	2.97		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Copper	28.6	2.97		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Lead	16.0	5.93		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Nickel	14.7	5.93		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Selenium	BRL	5.93		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Silver	BRL	2.97		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Thallium	BRL	5.93		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
Zinc	19.3	5.93		mg/Kg-dry	237732	1	02/10/2017 20:09	IO
PERCENT MOISTURE D2216								
Percent Moisture	22.2	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Feb-17

Client: Georgia Power Company	Client Sample ID: KMW-7B-0-4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 3:00:00 PM
Lab ID: 1702380-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.0972		mg/Kg-dry	237499	1	02/07/2017 14:42	JR
METALS, TOTAL SW6010D					(SW3050B)			
Antimony	BRL	5.16		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Arsenic	13.7	5.16		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Barium	92.9	5.16		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Beryllium	BRL	2.58		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Cadmium	BRL	2.58		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Chromium	7.87	2.58		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Copper	13.5	2.58		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Lead	10.6	5.16		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Nickel	9.55	5.16		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Selenium	BRL	5.16		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Silver	BRL	2.58		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Thallium	BRL	5.16		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
Zinc	19.9	5.16		mg/Kg-dry	237732	1	02/10/2017 20:13	IO
PERCENT MOISTURE D2216								
Percent Moisture	10.8	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Feb-17

Client: Georgia Power Company	Client Sample ID: SB-44-7B-0.6-1.6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 2/1/2017 4:20:00 PM
Lab ID: 1702380-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	1.02	0.141		mg/Kg-dry	237499	1	02/07/2017 14:44	JR
METALS, TOTAL SW6010D					(SW3050B)			
Antimony	69.2	6.96		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Arsenic	55.7	6.96		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Barium	224	6.96		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Beryllium	BRL	3.48		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Cadmium	BRL	3.48		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Chromium	84.3	3.48		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Copper	78.7	3.48		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Lead	34.2	6.96		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Nickel	5690	139		mg/Kg-dry	237732	20	02/13/2017 13:08	IO
Selenium	BRL	6.96		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Silver	BRL	3.48		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Thallium	62.8	6.96		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
Zinc	24.4	6.96		mg/Kg-dry	237732	1	02/10/2017 20:17	IO
PERCENT MOISTURE D2216								
Percent Moisture	29.8	0		wt%	R336214	1	02/10/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Troutman Sanders Plant Kraft
Workorder: 1702380

ANALYTICAL QC SUMMARY REPORT

BatchID: 237499

Sample ID: MB-237499	Client ID:	Units: mg/Kg	Prep Date: 02/07/2017	Run No: 335898							
SampleType: MBLK	TestCode: TOTAL MERCURY SW7471B	BatchID: 237499	Analysis Date: 02/07/2017	Seq No: 7331648							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: LCS-237499	Client ID:	Units: mg/Kg	Prep Date: 02/07/2017	Run No: 335898							
SampleType: LCS	TestCode: TOTAL MERCURY SW7471B	BatchID: 237499	Analysis Date: 02/07/2017	Seq No: 7331649							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.4421 0.100 0.4000 111 80 120

Sample ID: 1702380-007AMS	Client ID: SB-15-3B-0-4	Units: mg/Kg-dry	Prep Date: 02/07/2017	Run No: 335898							
SampleType: MS	TestCode: TOTAL MERCURY SW7471B	BatchID: 237499	Analysis Date: 02/07/2017	Seq No: 7331651							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.5161 0.109 0.4348 119 70 130

Sample ID: 1702380-007AMSD	Client ID: SB-15-3B-0-4	Units: mg/Kg-dry	Prep Date: 02/07/2017	Run No: 335898							
SampleType: MSD	TestCode: TOTAL MERCURY SW7471B	BatchID: 237499	Analysis Date: 02/07/2017	Seq No: 7331652							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.5599 0.111 0.4440 126 70 130 0.5161 8.13 30

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Troutman Sanders Plant Kraft
Workorder: 1702380

ANALYTICAL QC SUMMARY REPORT

BatchID: 237732

Sample ID: MB-237732	Client ID:	Units: mg/Kg	Prep Date: 02/09/2017	Run No: 336229							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 237732	Analysis Date: 02/10/2017	Seq No: 7339680							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	BRL	5.00									
Arsenic	BRL	5.00									
Barium	BRL	5.00									
Beryllium	BRL	2.50									
Cadmium	BRL	2.50									
Chromium	BRL	2.50									
Copper	BRL	2.50									
Lead	BRL	5.00									
Nickel	BRL	5.00									
Selenium	BRL	5.00									
Silver	BRL	2.50									
Thallium	BRL	5.00									
Zinc	BRL	5.00									

Sample ID: LCS-237732	Client ID:	Units: mg/Kg	Prep Date: 02/09/2017	Run No: 336229							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 237732	Analysis Date: 02/10/2017	Seq No: 7339681							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	50.36	5.00	50.00		101	80	120				
Arsenic	50.26	5.00	50.00		101	80	120				
Barium	50.49	5.00	50.00		101	80	120				
Beryllium	49.99	2.50	50.00		100.0	80	120				
Cadmium	50.05	2.50	50.00		100	80	120				
Chromium	51.35	2.50	50.00		103	80	120				
Copper	50.89	2.50	50.00	0.05319	102	80	120				
Lead	50.60	5.00	50.00		101	80	120				
Nickel	50.06	5.00	50.00		100	80	120				
Selenium	49.90	5.00	50.00		99.8	80	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Troutman Sanders Plant Kraft
Workorder: 1702380

ANALYTICAL QC SUMMARY REPORT

BatchID: 237732

Sample ID: LCS-237732	Client ID:	Units: mg/Kg	Prep Date: 02/09/2017	Run No: 336229							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 237732	Analysis Date: 02/10/2017	Seq No: 7339681							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Silver	5.038	2.50	5.000	0.02413	100	80	120				
Thallium	47.44	5.00	50.00	0.6911	93.5	80	120				
Zinc	49.09	5.00	50.00		98.2	80	120				

Sample ID: 1702332-051AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 02/09/2017	Run No: 336229							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 237732	Analysis Date: 02/10/2017	Seq No: 7339683							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	45.15	5.80	58.03	0.5220	76.9	75	125				
Arsenic	55.80	5.80	58.03	1.155	94.2	75	125				
Barium	118.4	5.80	58.03	61.83	97.4	75	125				
Beryllium	58.05	2.90	58.03	0.3216	99.5	75	125				
Cadmium	57.88	2.90	58.03		99.7	75	125				
Chromium	68.69	2.90	58.03	9.151	103	75	125				
Copper	68.42	2.90	58.03	7.840	104	75	125				
Lead	121.1	5.80	58.03	54.38	115	75	125				
Nickel	60.32	5.80	58.03	1.963	101	75	125				
Selenium	54.06	5.80	58.03		93.2	75	125				
Silver	5.748	2.90	5.803		99.1	75	125				
Thallium	55.61	5.80	58.03		95.8	75	125				
Zinc	89.06	5.80	58.03	24.06	112	75	125				

Sample ID: 1702332-051AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 02/09/2017	Run No: 336229							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 237732	Analysis Date: 02/10/2017	Seq No: 7339684							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	47.06	5.79	57.87	0.5220	80.4	75	125	45.15	4.13	20	
Arsenic	57.16	5.79	57.87	1.155	96.8	75	125	55.80	2.42	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Troutman Sanders Plant Kraft
Workorder: 1702380

ANALYTICAL QC SUMMARY REPORT

BatchID: 237732

Sample ID: 1702332-051AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 02/09/2017	Run No: 336229							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 237732	Analysis Date: 02/10/2017	Seq No: 7339684							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	119.5	5.79	57.87	61.83	99.6	75	125	118.4	0.926	20	
Beryllium	59.25	2.89	57.87	0.3216	102	75	125	58.05	2.05	20	
Cadmium	59.20	2.89	57.87		102	75	125	57.88	2.25	20	
Chromium	71.17	2.89	57.87	9.151	107	75	125	68.69	3.56	20	
Copper	70.47	2.89	57.87	7.840	108	75	125	68.42	2.95	20	
Lead	122.0	5.79	57.87	54.38	117	75	125	121.1	0.682	20	
Nickel	61.61	5.79	57.87	1.963	103	75	125	60.32	2.13	20	
Selenium	55.12	5.79	57.87		95.2	75	125	54.06	1.94	20	
Silver	5.870	2.89	5.787		101	75	125	5.748	2.10	20	
Thallium	56.98	5.79	57.87		98.5	75	125	55.61	2.44	20	
Zinc	92.42	5.79	57.87	24.06	118	75	125	89.06	3.70	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



November 23, 2016

Michael Patinkin
Resolute Env. & Water Resources Consulting, LLC
1001 Weatherstone Pkwy
Woodstock GA 30188

TEL: (678) 232-9499
FAX: (888) 881-8219

RE: Troutman Sanders Plant Kraft

Dear Michael Patinkin:

Order No: 1611C79

Analytical Environmental Services, Inc. received 19 samples on 11/12/2016 9:35:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Ioana Pacurar
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

11/10/16

PLANT KRAFT
Work Order: PHASE II

Date: 11/11/16 Page 1 of 2

COMPANY: GEORGIN POWER COMPANY		ADDRESS: 241 RALPH McCALL BLD ATLANTA GA 30308					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																											
PHONE: 678.232.9499		FAX: _____					<table border="1"> <tr> <td>EPA 606B</td> <td>EPA 8260B</td> <td>EPA 8270</td> <td>EPA 8260F</td> <td>IND WHITE</td> <td>EPA 801A</td> <td>EPA 801B</td> <td colspan="4"></td> <td colspan="2"></td> </tr> <tr> <td>RCCA METALS</td> <td>VOCs</td> <td>PAHs</td> <td>PTX</td> <td>PAHs IND</td> <td>DRO</td> <td>GRD</td> <td colspan="4"></td> <td colspan="2"></td> </tr> </table>										EPA 606B	EPA 8260B		EPA 8270	EPA 8260F	IND WHITE	EPA 801A	EPA 801B							RCCA METALS	VOCs	PAHs	PTX	PAHs IND	DRO	GRD									
EPA 606B	EPA 8260B	EPA 8270	EPA 8260F	IND WHITE	EPA 801A	EPA 801B																																								
RCCA METALS	VOCs	PAHs	PTX	PAHs IND	DRO	GRD																																								
SAMPLED BY: MICHAEL PATINKIN (RESOLUTE)		SIGNATURE: <i>[Signature]</i>					PRESERVATION (See codes)										REMARKS																													
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	NA	S/M +I	NA	S/M +I	NA	S/M +I																																		
1	SB-45-4-0-1	11/10/16	1515	X		SO	X										2 COOLERS	1																												
2	SB-45-3-0-1	11/10/16	1555	X		SO	X											1																												
3	SB-46-2-0-1	11/10/16	1730	X		SO	X	X	X									6																												
4	SB-45-2-0-1	11/10/16	0810	X		SO	X											1																												
5	SB-45-1-0-1	11/11/16	0825	X		SO	X											1																												
6	SB-46-4-1-2	11/11/16	0925	X		SO	X	X	X									6																												
7	GW-46-4-8-12	11/11/16	0920	X		GW	X	X	X								4 →	6																												
8	SB-11-0-1	11/11/16	0955	X		SO			X	X		X	X					6																												
9	SB-46-1-1-2	11/11/16	1020	X		SO	X	X	X									6																												
10	SB-46-3-2-3.3	11/11/16	1205	X		SO	X	X	X									6																												
11	SB-47-4-5	11/11/16	1440	X		SO	X	X	X									6																												
12	FB-1	11/11/16	1820	X		W	X	X	X			X	X					5																												
13	RB-1	11/11/16	1830	X		W	X	X	X			X	X					5																												
14	DUP-11/16 GW-DUP-3	11/11/16		X		GW	X	X	X									4																												
RELINQUISHED BY:		DATE/TIME:	RECEIVED BY:		DATE/TIME:	PROJECT INFORMATION										RECEIPT																														
1: MICHAEL PATINKIN		11/11/16 1000	1: <i>[Signature]</i>		11/11/16 4:55AM	PROJECT NAME: TROUTMAN SANDERS PLANT KRAFT										Total # of Containers: 58																														
2:			2:			PROJECT #:										Turnaround Time Request																														
3:			3:			SITE ADDRESS: 155 CROSSGATE ROAD PORT WENTWORTH GA										<input checked="" type="checkbox"/> Standard 5 Business Days																														
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD:					SEND REPORT TO: STEPHEN WILSON (RESOLUTE) IN GA										<input type="checkbox"/> 2 Business Day Rush																													
		OUT 11/11/16 VIA: FEDEX					INVOICE TO: MICHAEL PATINKIN										<input type="checkbox"/> Next Business Day Rush																													
		IN 1 1 VIA:					(IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same Day Rush (auth req.)																													
		CLIENT FedEx UPS MAIL COURIER					LEA MILLET (GEORGIA POWER)										<input type="checkbox"/> Other																													
		GREYHOUND OTHER _____					QUOTE #:										STATE PROGRAM (if any): MSRA																													
							PO#:										E-mail? Fax?																													
																	DATA PACKAGE: <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>																													

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

10/11/16 Work Order: PLANT KRAFT P1456 II
Date: 11/11/16 Page 2 of 2

COMPANY: GEORGIA POWER COMPANY		ADDRESS: 241 RALPH MC GILL BLVD ATLANTA, GA 30308			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																			
PHONE: 678.232.9499		FAX:			RCRA EPA Metals 8015	VCLs DA 8015	PAH 8015	BTEX 8015	DRG 8015	ARO 8015																										
SAMPLED BY: MICHAEL PATINKIN (RESOLUTE)		SIGNATURE: <i>[Signature]</i>			PRESERVATION (See codes)										REMARKS																					
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)													REMARKS	No # of Containers															
		DATE	TIME				NA	S/M +I	NA	S/M +I	NA	S/M +I																								
1	GW @ 11/11/16 SB-47-4-5	11/11/16	1440	X		GW	X	X	X														2 COOLERS	4												
2	GW-19-1-2.3	11/11/16	1600	X		GW	X	X	X															4												
3	SB-19-1-2.3	11/11/16	1600	X		SO	X	X	X															6												
4	SB-26-1-2	11/11/16	1700	X		SO			X	X	X	X												6												
5	<i>[Large Handwritten Signature]</i>																																			
6																																				
7																																				
8																																				
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10																																				
11																																				
12																																				
13																																				
14																																				

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1: <i>[Signature]</i>	11/11/16 1900	1: <i>[Signature]</i>	11/11/16 9:35 AM
2:		2:	
3:		3:	
SPECIAL INSTRUCTIONS/COMMENTS:	SHIPMENT METHOD:		
	OUT 11/11/16 VIA: <u>FREDEX</u>		
	IN / / VIA:		
	CLIENT <input checked="" type="checkbox"/> FedEx UPS MAIL COURIER		
	GREYHOUND OTHER		

PROJECT INFORMATION	
PROJECT NAME:	TROUMAN SANDERS PLANT KRAFT
PROJECT #:	
SITE ADDRESS:	155 CROSSCREEK ROAD PORT WENTWORTH, GA
SEND REPORT TO:	STEPHEN WILSON @ RESOLUTE ENVIRONMENTAL
INVOICE TO:	MICHAEL PATINKIN @
(IF DIFFERENT FROM ABOVE)	LEA MILLET (GEORGIA POWER)
QUOTE #:	
PO#:	

RECEIPT	
Total # of Containers	20
Turnaround Time Request	
<input checked="" type="checkbox"/>	Standard 5 Business Days
<input type="checkbox"/>	2 Business Day Rush
<input type="checkbox"/>	Next Business Day Rush
<input type="checkbox"/>	Same Day Rush (auth req.)
<input type="checkbox"/>	Other
STATE PROGRAM (if any):	HERIT
E-mail?	Fax?
DATA PACKAGE: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> O	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

Client: Resolute Env. & Water Resources Consulting, LLC
Project: Troutman Sanders Plant Kraft
Lab ID: 1611C79

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on sample 1611C79-003A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-45-4-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/10/2016 3:15:00 PM
Lab ID: 1611C79-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.0949		mg/Kg-dry	232972	1	11/16/2016 15:05	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	4.08		mg/Kg-dry	233239	1	11/18/2016 20:45	JL
Barium	8.46	4.08		mg/Kg-dry	233239	1	11/18/2016 20:45	JL
Cadmium	BRL	2.04		mg/Kg-dry	233239	1	11/18/2016 20:45	JL
Chromium	3.37	2.04		mg/Kg-dry	233239	1	11/18/2016 20:45	JL
Lead	8.31	4.08		mg/Kg-dry	233239	1	11/18/2016 20:45	JL
Selenium	BRL	4.08		mg/Kg-dry	233239	1	11/18/2016 20:45	JL
Silver	BRL	2.04		mg/Kg-dry	233239	1	11/18/2016 20:45	JL
PERCENT MOISTURE D2216								
Percent Moisture	0.640	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-45-3-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/10/2016 3:55:00 PM
Lab ID: 1611C79-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.0930		mg/Kg-dry	232972	1	11/16/2016 14:26	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	3.17		mg/Kg-dry	233239	1	11/18/2016 21:14	JL
Barium	20.2	3.17		mg/Kg-dry	233239	1	11/18/2016 21:14	JL
Cadmium	BRL	1.58		mg/Kg-dry	233239	1	11/18/2016 21:14	JL
Chromium	13.3	1.58		mg/Kg-dry	233239	1	11/18/2016 21:14	JL
Lead	62.1	3.17		mg/Kg-dry	233239	1	11/18/2016 21:14	JL
Selenium	BRL	3.17		mg/Kg-dry	233239	1	11/18/2016 21:14	JL
Silver	BRL	1.58		mg/Kg-dry	233239	1	11/18/2016 21:14	JL
PERCENT MOISTURE D2216								
Percent Moisture	5.38	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-2-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/10/2016 5:30:00 PM
Lab ID: 1611C79-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.101		mg/Kg-dry	232972	1	11/16/2016 15:07	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
2-Butanone	BRL	33		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
2-Hexanone	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
4-Methyl-2-pentanone	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Acetone	BRL	66		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Benzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Bromodichloromethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Bromoform	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Bromomethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Carbon disulfide	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Chlorobenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Chloroethane	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Chloroform	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Chloromethane	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Cyclohexane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Dibromochloromethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Dichlorodifluoromethane	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Ethylbenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Freon-113	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Isopropylbenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
m,p-Xylene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Methyl acetate	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-2-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/10/2016 5:30:00 PM
Lab ID: 1611C79-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Methylcyclohexane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Methylene chloride	BRL	13		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
o-Xylene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Styrene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Tetrachloroethene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Toluene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Trichloroethene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Vinyl chloride	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 10:31	MD
Surr: 4-Bromofluorobenzene	65.6	70-128	S	%REC	233162	1	11/18/2016 10:31	MD
Surr: Dibromofluoromethane	116	78.2-128		%REC	233162	1	11/18/2016 10:31	MD
Surr: Toluene-d8	88.1	76.5-116		%REC	233162	1	11/18/2016 10:31	MD
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Acenaphthylene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
1-Methylnaphthalene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
2-Methylnaphthalene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Acenaphthene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Fluorene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Phenanthrene	960	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Anthracene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Fluoranthene	2000	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Pyrene	1600	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Benz(a)anthracene	820	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Chrysene	1300	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Benzo(b)fluoranthene	1700	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Benzo(k)fluoranthene	660	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Benzo(a)pyrene	920	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Dibenz(a,h)anthracene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Benzo(g,h,i)perylene	620	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Indeno(1,2,3-cd)pyrene	530	340		ug/Kg-dry	232881	1	11/21/2016 20:40	RF
Surr: 2-Fluorobiphenyl	70.6	56.7-120		%REC	232881	1	11/21/2016 20:40	RF
Surr: 4-Terphenyl-d14	85.4	60-120		%REC	232881	1	11/21/2016 20:40	RF
Surr: Nitrobenzene-d5	68.1	52.6-120		%REC	232881	1	11/21/2016 20:40	RF
METALS, TOTAL SW6010D		(SW3050B)						
Arsenic	BRL	4.64		mg/Kg-dry	233239	1	11/18/2016 21:17	JL
Barium	25.8	4.64		mg/Kg-dry	233239	1	11/18/2016 21:17	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-2-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/10/2016 5:30:00 PM
Lab ID: 1611C79-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	2.32		mg/Kg-dry	233239	1	11/18/2016 21:17	JL
Chromium	7.82	2.32		mg/Kg-dry	233239	1	11/18/2016 21:17	JL
Lead	16.4	4.64		mg/Kg-dry	233239	1	11/18/2016 21:17	JL
Selenium	BRL	4.64		mg/Kg-dry	233239	1	11/18/2016 21:17	JL
Silver	BRL	2.32		mg/Kg-dry	233239	1	11/18/2016 21:17	JL
PERCENT MOISTURE D2216								
Percent Moisture	3.41	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-45-2-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 8:10:00 AM
Lab ID: 1611C79-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.130		mg/Kg-dry	232972	1	11/16/2016 15:10	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	4.41		mg/Kg-dry	233239	1	11/18/2016 21:27	JL
Barium	23.4	4.41		mg/Kg-dry	233239	1	11/18/2016 21:27	JL
Cadmium	BRL	2.21		mg/Kg-dry	233239	1	11/18/2016 21:27	JL
Chromium	6.80	2.21		mg/Kg-dry	233239	1	11/18/2016 21:27	JL
Lead	14.9	4.41		mg/Kg-dry	233239	1	11/18/2016 21:27	JL
Selenium	BRL	4.41		mg/Kg-dry	233239	1	11/18/2016 21:27	JL
Silver	BRL	2.21		mg/Kg-dry	233239	1	11/18/2016 21:27	JL
PERCENT MOISTURE D2216								
Percent Moisture	27.0	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-45-1-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 8:25:00 AM
Lab ID: 1611C79-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.0919		mg/Kg-dry	232972	1	11/16/2016 15:12	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	4.03	3.88		mg/Kg-dry	233239	1	11/18/2016 21:30	JL
Barium	46.3	3.88		mg/Kg-dry	233239	1	11/18/2016 21:30	JL
Cadmium	BRL	1.94		mg/Kg-dry	233239	1	11/18/2016 21:30	JL
Chromium	8.64	1.94		mg/Kg-dry	233239	1	11/18/2016 21:30	JL
Lead	75.9	3.88		mg/Kg-dry	233239	1	11/18/2016 21:30	JL
Selenium	BRL	3.88		mg/Kg-dry	233239	1	11/18/2016 21:30	JL
Silver	BRL	1.94		mg/Kg-dry	233239	1	11/18/2016 21:30	JL
PERCENT MOISTURE D2216								
Percent Moisture	1.07	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-4-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 9:25:00 AM
Lab ID: 1611C79-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.0973		mg/Kg-dry	232972	1	11/16/2016 15:14	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
2-Butanone	BRL	39		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
2-Hexanone	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
4-Methyl-2-pentanone	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Acetone	BRL	78		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Benzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Bromodichloromethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Bromoform	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Bromomethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Carbon disulfide	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Chlorobenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Chloroethane	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Chloroform	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Chloromethane	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Cyclohexane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Dibromochloromethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Dichlorodifluoromethane	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Ethylbenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Freon-113	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Isopropylbenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
m,p-Xylene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Methyl acetate	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-4-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 9:25:00 AM
Lab ID: 1611C79-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Methylene chloride	BRL	16		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
o-Xylene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Styrene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Tetrachloroethene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Toluene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Trichloroethene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Vinyl chloride	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:10	MD
Surr: 4-Bromofluorobenzene	91.9	70-128		%REC	233162	1	11/18/2016 02:10	MD
Surr: Dibromofluoromethane	106	78.2-128		%REC	233162	1	11/18/2016 02:10	MD
Surr: Toluene-d8	95.2	76.5-116		%REC	233162	1	11/18/2016 02:10	MD
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Acenaphthylene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
1-Methylnaphthalene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
2-Methylnaphthalene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Acenaphthene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Fluorene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Phenanthrene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Anthracene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Pyrene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Benz(a)anthracene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Chrysene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Benzo(b)fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Benzo(k)fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Benzo(a)pyrene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Dibenz(a,h)anthracene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Benzo(g,h,i)perylene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Indeno(1,2,3-cd)pyrene	BRL	340		ug/Kg-dry	232881	1	11/15/2016 23:54	RF
Surr: 2-Fluorobiphenyl	74.9	56.7-120		%REC	232881	1	11/15/2016 23:54	RF
Surr: 4-Terphenyl-d14	83.9	60-120		%REC	232881	1	11/15/2016 23:54	RF
Surr: Nitrobenzene-d5	71.1	52.6-120		%REC	232881	1	11/15/2016 23:54	RF
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	4.11		mg/Kg-dry	233239	1	11/18/2016 21:34	JL
Barium	9.82	4.11		mg/Kg-dry	233239	1	11/18/2016 21:34	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-4-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 9:25:00 AM
Lab ID: 1611C79-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	2.06		mg/Kg-dry	233239	1	11/18/2016 21:34	JL
Chromium	2.76	2.06		mg/Kg-dry	233239	1	11/18/2016 21:34	JL
Lead	6.96	4.11		mg/Kg-dry	233239	1	11/18/2016 21:34	JL
Selenium	BRL	4.11		mg/Kg-dry	233239	1	11/18/2016 21:34	JL
Silver	BRL	2.06		mg/Kg-dry	233239	1	11/18/2016 21:34	JL
PERCENT MOISTURE D2216								
Percent Moisture	3.73	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-46-4-8-12
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 9:20:00 AM
Lab ID: 1611C79-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
2-Butanone	BRL	50		ug/L	233191	1	11/18/2016 02:31	NP
2-Hexanone	BRL	10		ug/L	233191	1	11/18/2016 02:31	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233191	1	11/18/2016 02:31	NP
Acetone	BRL	50		ug/L	233191	1	11/18/2016 02:31	NP
Benzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Bromodichloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Bromoform	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Bromomethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Carbon disulfide	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Carbon tetrachloride	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Chlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Chloroethane	BRL	10		ug/L	233191	1	11/18/2016 02:31	NP
Chloroform	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Chloromethane	BRL	10		ug/L	233191	1	11/18/2016 02:31	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Cyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Dibromochloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Dichlorodifluoromethane	BRL	10		ug/L	233191	1	11/18/2016 02:31	NP
Ethylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Freon-113	BRL	10		ug/L	233191	1	11/18/2016 02:31	NP
Isopropylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
m,p-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Methyl acetate	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Methylcyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Methylene chloride	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
o-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-46-4-8-12
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 9:20:00 AM
Lab ID: 1611C79-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Tetrachloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Toluene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Trichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:31	NP
Vinyl chloride	BRL	2.0		ug/L	233191	1	11/18/2016 02:31	NP
Surr: 4-Bromofluorobenzene	93.7	66.1-129		%REC	233191	1	11/18/2016 02:31	NP
Surr: Dibromofluoromethane	101	83.6-123		%REC	233191	1	11/18/2016 02:31	NP
Surr: Toluene-d8	98.9	81.8-118		%REC	233191	1	11/18/2016 02:31	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233130	1	11/18/2016 12:56	JR
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Acenaphthylene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
1-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
2-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Acenaphthene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Fluorene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Phenanthrene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Anthracene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Pyrene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Benz(a)anthracene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Chrysene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Benzo(b)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Benzo(k)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Benzo(a)pyrene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	232885	1	11/21/2016 08:40	RF
Surr: Nitrobenzene-d5	77	56.9-120		%REC	232885	1	11/21/2016 08:40	RF
Surr: 2-Fluorobiphenyl	73	55.6-120		%REC	232885	1	11/21/2016 08:40	RF
Surr: 4-Terphenyl-d14	71	45.7-120		%REC	232885	1	11/21/2016 08:40	RF
METALS, TOTAL SW6010D			(SW3010A)					
Arsenic	BRL	0.0500		mg/L	233147	1	11/18/2016 21:14	IO
Barium	0.109	0.0200		mg/L	233147	1	11/18/2016 21:14	IO

Qualifiers:

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-46-4-8-12
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 9:20:00 AM
Lab ID: 1611C79-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	233147	1	11/18/2016 21:14	IO
Chromium	BRL	0.0100		mg/L	233147	1	11/18/2016 21:14	IO
Lead	BRL	0.0100		mg/L	233147	1	11/18/2016 21:14	IO
Selenium	BRL	0.0200		mg/L	233147	1	11/18/2016 21:14	IO
Silver	BRL	0.0100		mg/L	233147	1	11/18/2016 21:14	IO

Qualifiers:

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-11-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 9:55:00 AM
Lab ID: 1611C79-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.77		ug/Kg-dry	233234	1	11/17/2016 20:51	JE
Toluene	BRL	0.77		ug/Kg-dry	233234	1	11/17/2016 20:51	JE
Ethylbenzene	BRL	0.77		ug/Kg-dry	233234	1	11/17/2016 20:51	JE
m,p-Xylene	BRL	0.77		ug/Kg-dry	233234	1	11/17/2016 20:51	JE
o-Xylene	BRL	0.77		ug/Kg-dry	233234	1	11/17/2016 20:51	JE
Surr: 4-Bromofluorobenzene	79.7	70-128		%REC	233234	1	11/17/2016 20:51	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Acenaphthylene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
1-Methylnaphthalene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
2-Methylnaphthalene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Acenaphthene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Fluorene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Phenanthrene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Anthracene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Fluoranthene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Pyrene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Benz(a)anthracene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Chrysene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Benzo(b)fluoranthene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Benzo(k)fluoranthene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Benzo(a)pyrene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Dibenz(a,h)anthracene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Benzo(g,h,i)perylene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Indeno(1,2,3-cd)pyrene	BRL	400		ug/Kg-dry	232881	1	11/21/2016 21:10	RF
Surr: 2-Fluorobiphenyl	72.7	56.7-120		%REC	232881	1	11/21/2016 21:10	RF
Surr: 4-Terphenyl-d14	97.1	60-120		%REC	232881	1	11/21/2016 21:10	RF
Surr: Nitrobenzene-d5	69.1	52.6-120		%REC	232881	1	11/21/2016 21:10	RF
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.39		mg/Kg-dry	233234	1	11/17/2016 20:51	JE
Surr: a.a.a-trifluorotoluene	114	69.8-134		%REC	233234	1	11/17/2016 20:51	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.0		mg/Kg-dry	232806	1	11/15/2016 15:58	RF
Surr: Dioctylphthalate	62.4	50.1-122		%REC	232806	1	11/15/2016 15:58	RF
PERCENT MOISTURE D2216								
Percent Moisture	16.7	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-1-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 10:20:00 AM
Lab ID: 1611C79-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.101		mg/Kg-dry	232972	1	11/16/2016 15:16	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
2-Butanone	BRL	39		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
2-Hexanone	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
4-Methyl-2-pentanone	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Acetone	BRL	78		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Benzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Bromodichloromethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Bromoform	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Bromomethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Carbon disulfide	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Chlorobenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Chloroethane	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Chloroform	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Chloromethane	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Cyclohexane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Dibromochloromethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Dichlorodifluoromethane	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Ethylbenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Freon-113	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Isopropylbenzene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
m,p-Xylene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Methyl acetate	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-1-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 10:20:00 AM
Lab ID: 1611C79-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Methylene chloride	BRL	16		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
o-Xylene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Styrene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Tetrachloroethene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Toluene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Trichloroethene	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Vinyl chloride	BRL	7.8		ug/Kg-dry	233162	1	11/18/2016 02:33	MD
Surr: 4-Bromofluorobenzene	95	70-128		%REC	233162	1	11/18/2016 02:33	MD
Surr: Dibromofluoromethane	106	78.2-128		%REC	233162	1	11/18/2016 02:33	MD
Surr: Toluene-d8	96.8	76.5-116		%REC	233162	1	11/18/2016 02:33	MD
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Acenaphthylene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
1-Methylnaphthalene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
2-Methylnaphthalene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Acenaphthene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Fluorene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Phenanthrene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Anthracene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Pyrene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Benz(a)anthracene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Chrysene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Benzo(b)fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Benzo(k)fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Benzo(a)pyrene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Dibenz(a,h)anthracene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Benzo(g,h,i)perylene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Indeno(1,2,3-cd)pyrene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 03:54	RF
Surr: 2-Fluorobiphenyl	73.9	56.7-120		%REC	232881	1	11/19/2016 03:54	RF
Surr: 4-Terphenyl-d14	83.9	60-120		%REC	232881	1	11/19/2016 03:54	RF
Surr: Nitrobenzene-d5	53.1	52.6-120		%REC	232881	1	11/19/2016 03:54	RF
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	2.74		mg/Kg-dry	233239	1	11/18/2016 21:37	JL
Barium	5.47	2.74		mg/Kg-dry	233239	1	11/18/2016 21:37	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-1-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 10:20:00 AM
Lab ID: 1611C79-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	1.37		mg/Kg-dry	233239	1	11/18/2016 21:37	JL
Chromium	1.54	1.37		mg/Kg-dry	233239	1	11/18/2016 21:37	JL
Lead	BRL	2.74		mg/Kg-dry	233239	1	11/18/2016 21:37	JL
Selenium	BRL	2.74		mg/Kg-dry	233239	1	11/18/2016 21:37	JL
Silver	BRL	1.37		mg/Kg-dry	233239	1	11/18/2016 21:37	JL
PERCENT MOISTURE D2216								
Percent Moisture	2.56	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-3-2-3.3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 12:05:00 PM
Lab ID: 1611C79-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.102		mg/Kg-dry	232972	1	11/16/2016 15:18	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
2-Butanone	BRL	38		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
2-Hexanone	BRL	7.6		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
4-Methyl-2-pentanone	BRL	7.6		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Acetone	BRL	76		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Benzene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Bromodichloromethane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Bromoform	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Bromomethane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Carbon disulfide	BRL	7.6		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Chlorobenzene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Chloroethane	BRL	7.6		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Chloroform	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Chloromethane	BRL	7.6		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Cyclohexane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Dibromochloromethane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Dichlorodifluoromethane	BRL	7.6		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Ethylbenzene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Freon-113	BRL	7.6		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Isopropylbenzene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
m,p-Xylene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Methyl acetate	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-3-2-3.3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 12:05:00 PM
Lab ID: 1611C79-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Methylene chloride	BRL	15		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
o-Xylene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Styrene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Tetrachloroethene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Toluene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Trichloroethene	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Vinyl chloride	BRL	7.6		ug/Kg-dry	233162	1	11/18/2016 02:57	MD
Surr: 4-Bromofluorobenzene	91.8	70-128		%REC	233162	1	11/18/2016 02:57	MD
Surr: Dibromofluoromethane	102	78.2-128		%REC	233162	1	11/18/2016 02:57	MD
Surr: Toluene-d8	93.9	76.5-116		%REC	233162	1	11/18/2016 02:57	MD
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Acenaphthylene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
1-Methylnaphthalene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
2-Methylnaphthalene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Acenaphthene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Fluorene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Phenanthrene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Anthracene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Pyrene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Benz(a)anthracene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Chrysene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Benzo(b)fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Benzo(k)fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Benzo(a)pyrene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Dibenz(a,h)anthracene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Benzo(g,h,i)perylene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Indeno(1,2,3-cd)pyrene	BRL	340		ug/Kg-dry	232881	1	11/19/2016 04:21	RF
Surr: 2-Fluorobiphenyl	73.6	56.7-120		%REC	232881	1	11/19/2016 04:21	RF
Surr: 4-Terphenyl-d14	81.4	60-120		%REC	232881	1	11/19/2016 04:21	RF
Surr: Nitrobenzene-d5	53.2	52.6-120		%REC	232881	1	11/19/2016 04:21	RF
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	4.59		mg/Kg-dry	233239	1	11/18/2016 21:40	JL
Barium	6.35	4.59		mg/Kg-dry	233239	1	11/18/2016 21:40	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-46-3-2-3.3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 12:05:00 PM
Lab ID: 1611C79-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	2.29		mg/Kg-dry	233239	1	11/18/2016 21:40	JL
Chromium	BRL	2.29		mg/Kg-dry	233239	1	11/18/2016 21:40	JL
Lead	BRL	4.59		mg/Kg-dry	233239	1	11/18/2016 21:40	JL
Selenium	BRL	4.59		mg/Kg-dry	233239	1	11/18/2016 21:40	JL
Silver	BRL	2.29		mg/Kg-dry	233239	1	11/18/2016 21:40	JL
PERCENT MOISTURE D2216								
Percent Moisture	3.73	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-47-4-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 2:40:00 PM
Lab ID: 1611C79-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.103		mg/Kg-dry	232972	1	11/16/2016 15:21	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
2-Butanone	BRL	33		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
2-Hexanone	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
4-Methyl-2-pentanone	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Acetone	BRL	66		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Benzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Bromodichloromethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Bromoform	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Bromomethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Carbon disulfide	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Chlorobenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Chloroethane	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Chloroform	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Chloromethane	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Cyclohexane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Dibromochloromethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Dichlorodifluoromethane	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Ethylbenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Freon-113	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Isopropylbenzene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
m,p-Xylene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Methyl acetate	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-47-4-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 2:40:00 PM
Lab ID: 1611C79-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Methylene chloride	BRL	13		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
o-Xylene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Styrene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Tetrachloroethene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Toluene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Trichloroethene	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Vinyl chloride	BRL	6.6		ug/Kg-dry	233162	1	11/18/2016 03:20	MD
Surr: 4-Bromofluorobenzene	90.4	70-128		%REC	233162	1	11/18/2016 03:20	MD
Surr: Dibromofluoromethane	106	78.2-128		%REC	233162	1	11/18/2016 03:20	MD
Surr: Toluene-d8	95.1	76.5-116		%REC	233162	1	11/18/2016 03:20	MD
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Acenaphthylene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
1-Methylnaphthalene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
2-Methylnaphthalene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Acenaphthene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Fluorene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Phenanthrene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Anthracene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Fluoranthene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Pyrene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Benz(a)anthracene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Chrysene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Benzo(b)fluoranthene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Benzo(k)fluoranthene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Benzo(a)pyrene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Dibenz(a,h)anthracene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Benzo(g,h,i)perylene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Indeno(1,2,3-cd)pyrene	BRL	350		ug/Kg-dry	232881	1	11/19/2016 04:49	RF
Surr: 2-Fluorobiphenyl	73.5	56.7-120		%REC	232881	1	11/19/2016 04:49	RF
Surr: 4-Terphenyl-d14	86.6	60-120		%REC	232881	1	11/19/2016 04:49	RF
Surr: Nitrobenzene-d5	55.2	52.6-120		%REC	232881	1	11/19/2016 04:49	RF
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	3.44		mg/Kg-dry	233239	1	11/18/2016 21:44	JL
Barium	BRL	3.44		mg/Kg-dry	233239	1	11/18/2016 21:44	JL

Qualifiers:

- * Value exceeds maximum contaminant level
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-47-4-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 2:40:00 PM
Lab ID: 1611C79-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	1.72		mg/Kg-dry	233239	1	11/18/2016 21:44	JL
Chromium	BRL	1.72		mg/Kg-dry	233239	1	11/18/2016 21:44	JL
Lead	BRL	3.44		mg/Kg-dry	233239	1	11/18/2016 21:44	JL
Selenium	BRL	3.44		mg/Kg-dry	233239	1	11/18/2016 21:44	JL
Silver	BRL	1.72		mg/Kg-dry	233239	1	11/18/2016 21:44	JL
PERCENT MOISTURE D2216								
Percent Moisture	4.49	0		wt%	R330288	1	11/18/2016 09:00	BD

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	FB-1
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/11/2016 6:20:00 PM
Lab ID:	1611C79-012	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
2-Butanone	BRL	50		ug/L	233191	1	11/18/2016 02:55	NP
2-Hexanone	BRL	10		ug/L	233191	1	11/18/2016 02:55	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233191	1	11/18/2016 02:55	NP
Acetone	BRL	50		ug/L	233191	1	11/18/2016 02:55	NP
Benzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Bromodichloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Bromoform	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Bromomethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Carbon disulfide	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Carbon tetrachloride	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Chlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Chloroethane	BRL	10		ug/L	233191	1	11/18/2016 02:55	NP
Chloroform	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Chloromethane	BRL	10		ug/L	233191	1	11/18/2016 02:55	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Cyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Dibromochloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Dichlorodifluoromethane	BRL	10		ug/L	233191	1	11/18/2016 02:55	NP
Ethylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Freon-113	BRL	10		ug/L	233191	1	11/18/2016 02:55	NP
Isopropylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
m,p-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Methyl acetate	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Methylcyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Methylene chloride	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
o-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP

Qualifiers:

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- Narr See case narrative
- NC Not confirmed
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- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 6:20:00 PM
Lab ID: 1611C79-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Tetrachloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Toluene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Trichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233191	1	11/18/2016 02:55	NP
Vinyl chloride	BRL	2.0		ug/L	233191	1	11/18/2016 02:55	NP
Surr: 4-Bromofluorobenzene	92.1	66.1-129		%REC	233191	1	11/18/2016 02:55	NP
Surr: Dibromofluoromethane	101	83.6-123		%REC	233191	1	11/18/2016 02:55	NP
Surr: Toluene-d8	99.3	81.8-118		%REC	233191	1	11/18/2016 02:55	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233130	1	11/18/2016 12:58	JR
GASOLINE RANGE ORGANICS SW8015C			(SW5030B)					
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/18/2016 07:54	JE
Surr: a.a.a-trifluorotoluene	104	75.1-120		%REC	233054	1	11/18/2016 07:54	JE
DIESEL RANGE ORGANICS SW8015C			(SW3510C)					
Diesel Range Organics	BRL	0.20		mg/L	232797	1	11/15/2016 14:02	RF
Surr: Dioctylphthalate	69.2	47-119		%REC	232797	1	11/15/2016 14:02	RF
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Acenaphthylene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
1-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
2-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Acenaphthene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Fluorene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Phenanthrene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Anthracene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Pyrene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Benz(a)anthracene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Chrysene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Benzo(b)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Benzo(k)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Benzo(a)pyrene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF

Qualifiers:

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
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- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 6:20:00 PM
Lab ID: 1611C79-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	232885	1	11/21/2016 19:12	RF
Surr: Nitrobenzene-d5	66.6	56.9-120		%REC	232885	1	11/21/2016 19:12	RF
Surr: 2-Fluorobiphenyl	71.4	55.6-120		%REC	232885	1	11/21/2016 19:12	RF
Surr: 4-Terphenyl-d14	87.2	45.7-120		%REC	232885	1	11/21/2016 19:12	RF
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233147	1	11/18/2016 21:18	IO
Barium	BRL	0.0200		mg/L	233147	1	11/18/2016 21:18	IO
Cadmium	BRL	0.0050		mg/L	233147	1	11/18/2016 21:18	IO
Chromium	BRL	0.0100		mg/L	233147	1	11/18/2016 21:18	IO
Lead	BRL	0.0100		mg/L	233147	1	11/18/2016 21:18	IO
Selenium	BRL	0.0200		mg/L	233147	1	11/18/2016 21:18	IO
Silver	BRL	0.0100		mg/L	233147	1	11/18/2016 21:18	IO

Qualifiers:

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 6:30:00 PM
Lab ID: 1611C79-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
2-Butanone	BRL	50		ug/L	233191	1	11/18/2016 03:18	NP
2-Hexanone	BRL	10		ug/L	233191	1	11/18/2016 03:18	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233191	1	11/18/2016 03:18	NP
Acetone	BRL	50		ug/L	233191	1	11/18/2016 03:18	NP
Benzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Bromodichloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Bromoform	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Bromomethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Carbon disulfide	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Carbon tetrachloride	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Chlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Chloroethane	BRL	10		ug/L	233191	1	11/18/2016 03:18	NP
Chloroform	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Chloromethane	BRL	10		ug/L	233191	1	11/18/2016 03:18	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Cyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Dibromochloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Dichlorodifluoromethane	BRL	10		ug/L	233191	1	11/18/2016 03:18	NP
Ethylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Freon-113	BRL	10		ug/L	233191	1	11/18/2016 03:18	NP
Isopropylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
m,p-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Methyl acetate	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Methylcyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Methylene chloride	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
o-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP

Qualifiers:

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- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 6:30:00 PM
Lab ID: 1611C79-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Tetrachloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Toluene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Trichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:18	NP
Vinyl chloride	BRL	2.0		ug/L	233191	1	11/18/2016 03:18	NP
Surr: 4-Bromofluorobenzene	92	66.1-129		%REC	233191	1	11/18/2016 03:18	NP
Surr: Dibromofluoromethane	103	83.6-123		%REC	233191	1	11/18/2016 03:18	NP
Surr: Toluene-d8	101	81.8-118		%REC	233191	1	11/18/2016 03:18	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233130	1	11/18/2016 13:00	JR
GASOLINE RANGE ORGANICS SW8015C			(SW5030B)					
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/18/2016 08:22	JE
Surr: a.a.a-trifluorotoluene	109	75.1-120		%REC	233054	1	11/18/2016 08:22	JE
DIESEL RANGE ORGANICS SW8015C			(SW3510C)					
Diesel Range Organics	BRL	0.20		mg/L	232797	1	11/15/2016 14:25	RF
Surr: Dioctylphthalate	57.9	47-119		%REC	232797	1	11/15/2016 14:25	RF
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Acenaphthylene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
1-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
2-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Acenaphthene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Fluorene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Phenanthrene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Anthracene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Pyrene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Benz(a)anthracene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Chrysene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Benzo(b)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Benzo(k)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Benzo(a)pyrene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 6:30:00 PM
Lab ID: 1611C79-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	232885	1	11/21/2016 18:44	RF
Surr: Nitrobenzene-d5	64.1	56.9-120		%REC	232885	1	11/21/2016 18:44	RF
Surr: 2-Fluorobiphenyl	65.4	55.6-120		%REC	232885	1	11/21/2016 18:44	RF
Surr: 4-Terphenyl-d14	81.5	45.7-120		%REC	232885	1	11/21/2016 18:44	RF
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233147	1	11/18/2016 21:21	IO
Barium	BRL	0.0200		mg/L	233147	1	11/18/2016 21:21	IO
Cadmium	BRL	0.0050		mg/L	233147	1	11/18/2016 21:21	IO
Chromium	BRL	0.0100		mg/L	233147	1	11/18/2016 21:21	IO
Lead	BRL	0.0100		mg/L	233147	1	11/18/2016 21:21	IO
Selenium	BRL	0.0200		mg/L	233147	1	11/18/2016 21:21	IO
Silver	BRL	0.0100		mg/L	233147	1	11/18/2016 21:21	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	GW-DUP-3
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/11/2016
Lab ID:	1611C79-014	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
2-Butanone	BRL	50		ug/L	233191	1	11/18/2016 03:41	NP
2-Hexanone	BRL	10		ug/L	233191	1	11/18/2016 03:41	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233191	1	11/18/2016 03:41	NP
Acetone	BRL	50		ug/L	233191	1	11/18/2016 03:41	NP
Benzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Bromodichloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Bromoform	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Bromomethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Carbon disulfide	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Carbon tetrachloride	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Chlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Chloroethane	BRL	10		ug/L	233191	1	11/18/2016 03:41	NP
Chloroform	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Chloromethane	BRL	10		ug/L	233191	1	11/18/2016 03:41	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Cyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Dibromochloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Dichlorodifluoromethane	BRL	10		ug/L	233191	1	11/18/2016 03:41	NP
Ethylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Freon-113	BRL	10		ug/L	233191	1	11/18/2016 03:41	NP
Isopropylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
m,p-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Methyl acetate	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Methylcyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Methylene chloride	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
o-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-DUP-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016
Lab ID: 1611C79-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Tetrachloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Toluene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Trichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233191	1	11/18/2016 03:41	NP
Vinyl chloride	BRL	2.0		ug/L	233191	1	11/18/2016 03:41	NP
Surr: 4-Bromofluorobenzene	92.8	66.1-129		%REC	233191	1	11/18/2016 03:41	NP
Surr: Dibromofluoromethane	103	83.6-123		%REC	233191	1	11/18/2016 03:41	NP
Surr: Toluene-d8	101	81.8-118		%REC	233191	1	11/18/2016 03:41	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233130	1	11/18/2016 13:02	JR
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Acenaphthylene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
1-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
2-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Acenaphthene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Fluorene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Phenanthrene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Anthracene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Pyrene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Benz(a)anthracene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Chrysene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Benzo(b)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Benzo(k)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Benzo(a)pyrene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	232885	1	11/21/2016 18:17	RF
Surr: Nitrobenzene-d5	65.7	56.9-120		%REC	232885	1	11/21/2016 18:17	RF
Surr: 2-Fluorobiphenyl	66.5	55.6-120		%REC	232885	1	11/21/2016 18:17	RF
Surr: 4-Terphenyl-d14	87.2	45.7-120		%REC	232885	1	11/21/2016 18:17	RF
METALS, TOTAL SW6010D			(SW3010A)					
Arsenic	BRL	0.0500		mg/L	233147	1	11/18/2016 21:30	IO
Barium	0.113	0.0200		mg/L	233147	1	11/18/2016 21:30	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-DUP-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016
Lab ID: 1611C79-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D								
					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	233147	1	11/18/2016 21:30	IO
Chromium	BRL	0.0100		mg/L	233147	1	11/18/2016 21:30	IO
Lead	BRL	0.0100		mg/L	233147	1	11/18/2016 21:30	IO
Selenium	BRL	0.0200		mg/L	233147	1	11/18/2016 21:30	IO
Silver	BRL	0.0100		mg/L	233147	1	11/18/2016 21:30	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-47-4-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 2:40:00 PM
Lab ID: 1611C79-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
2-Butanone	BRL	50		ug/L	233191	1	11/18/2016 04:05	NP
2-Hexanone	BRL	10		ug/L	233191	1	11/18/2016 04:05	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233191	1	11/18/2016 04:05	NP
Acetone	BRL	50		ug/L	233191	1	11/18/2016 04:05	NP
Benzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Bromodichloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Bromoform	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Bromomethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Carbon disulfide	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Carbon tetrachloride	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Chlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Chloroethane	BRL	10		ug/L	233191	1	11/18/2016 04:05	NP
Chloroform	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Chloromethane	BRL	10		ug/L	233191	1	11/18/2016 04:05	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Cyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Dibromochloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Dichlorodifluoromethane	BRL	10		ug/L	233191	1	11/18/2016 04:05	NP
Ethylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Freon-113	BRL	10		ug/L	233191	1	11/18/2016 04:05	NP
Isopropylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
m,p-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Methyl acetate	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Methylcyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Methylene chloride	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
o-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-47-4-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 2:40:00 PM
Lab ID: 1611C79-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Tetrachloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Toluene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Trichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:05	NP
Vinyl chloride	BRL	2.0		ug/L	233191	1	11/18/2016 04:05	NP
Surr: 4-Bromofluorobenzene	92.2	66.1-129		%REC	233191	1	11/18/2016 04:05	NP
Surr: Dibromofluoromethane	103	83.6-123		%REC	233191	1	11/18/2016 04:05	NP
Surr: Toluene-d8	101	81.8-118		%REC	233191	1	11/18/2016 04:05	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233130	1	11/18/2016 13:04	JR
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Acenaphthylene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
1-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
2-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Acenaphthene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Fluorene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Phenanthrene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Anthracene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Pyrene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Benz(a)anthracene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Chrysene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Benzo(b)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Benzo(k)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Benzo(a)pyrene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	232885	1	11/21/2016 19:42	RF
Surr: Nitrobenzene-d5	69	56.9-120		%REC	232885	1	11/21/2016 19:42	RF
Surr: 2-Fluorobiphenyl	68.1	55.6-120		%REC	232885	1	11/21/2016 19:42	RF
Surr: 4-Terphenyl-d14	93.8	45.7-120		%REC	232885	1	11/21/2016 19:42	RF
METALS, TOTAL SW6010D			(SW3010A)					
Arsenic	BRL	0.0500		mg/L	233147	1	11/18/2016 21:34	IO
Barium	0.0386	0.0200		mg/L	233147	1	11/18/2016 21:34	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-47-4-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 2:40:00 PM
Lab ID: 1611C79-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	233147	1	11/18/2016 21:34	IO
Chromium	BRL	0.0100		mg/L	233147	1	11/18/2016 21:34	IO
Lead	BRL	0.0100		mg/L	233147	1	11/18/2016 21:34	IO
Selenium	BRL	0.0200		mg/L	233147	1	11/18/2016 21:34	IO
Silver	BRL	0.0100		mg/L	233147	1	11/18/2016 21:34	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-19-1-2.3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 4:00:00 PM
Lab ID: 1611C79-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
2-Butanone	BRL	50		ug/L	233191	1	11/18/2016 04:28	NP
2-Hexanone	BRL	10		ug/L	233191	1	11/18/2016 04:28	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233191	1	11/18/2016 04:28	NP
Acetone	BRL	50		ug/L	233191	1	11/18/2016 04:28	NP
Benzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Bromodichloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Bromoform	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Bromomethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Carbon disulfide	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Carbon tetrachloride	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Chlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Chloroethane	BRL	10		ug/L	233191	1	11/18/2016 04:28	NP
Chloroform	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Chloromethane	BRL	10		ug/L	233191	1	11/18/2016 04:28	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Cyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Dibromochloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Dichlorodifluoromethane	BRL	10		ug/L	233191	1	11/18/2016 04:28	NP
Ethylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Freon-113	BRL	10		ug/L	233191	1	11/18/2016 04:28	NP
Isopropylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
m,p-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Methyl acetate	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Methylcyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Methylene chloride	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
o-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-19-1-2.3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 4:00:00 PM
Lab ID: 1611C79-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Tetrachloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Toluene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Trichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233191	1	11/18/2016 04:28	NP
Vinyl chloride	BRL	2.0		ug/L	233191	1	11/18/2016 04:28	NP
Surr: 4-Bromofluorobenzene	89.6	66.1-129		%REC	233191	1	11/18/2016 04:28	NP
Surr: Dibromofluoromethane	101	83.6-123		%REC	233191	1	11/18/2016 04:28	NP
Surr: Toluene-d8	100	81.8-118		%REC	233191	1	11/18/2016 04:28	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233130	1	11/18/2016 13:10	JR
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Acenaphthylene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
1-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
2-Methylnaphthalene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Acenaphthene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Fluorene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Phenanthrene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Anthracene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Pyrene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Benz(a)anthracene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Chrysene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Benzo(b)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Benzo(k)fluoranthene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Benzo(a)pyrene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	232885	1	11/21/2016 20:11	RF
Surr: Nitrobenzene-d5	62.3	56.9-120		%REC	232885	1	11/21/2016 20:11	RF
Surr: 2-Fluorobiphenyl	67.2	55.6-120		%REC	232885	1	11/21/2016 20:11	RF
Surr: 4-Terphenyl-d14	94.5	45.7-120		%REC	232885	1	11/21/2016 20:11	RF
METALS, TOTAL SW6010D			(SW3010A)					
Arsenic	BRL	0.0500		mg/L	233147	1	11/18/2016 21:38	IO
Barium	0.0513	0.0200		mg/L	233147	1	11/18/2016 21:38	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-19-1-2.3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 4:00:00 PM
Lab ID: 1611C79-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	233147	1	11/18/2016 21:38	IO
Chromium	BRL	0.0100		mg/L	233147	1	11/18/2016 21:38	IO
Lead	BRL	0.0100		mg/L	233147	1	11/18/2016 21:38	IO
Selenium	BRL	0.0200		mg/L	233147	1	11/18/2016 21:38	IO
Silver	BRL	0.0100		mg/L	233147	1	11/18/2016 21:38	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-19-1-2-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 4:00:00 PM
Lab ID: 1611C79-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.0892		mg/Kg-dry	232972	1	11/16/2016 15:23	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
2-Butanone	BRL	36		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
2-Hexanone	BRL	7.3		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Acetone	BRL	73		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Benzene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Bromodichloromethane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Bromoform	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Bromomethane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Carbon disulfide	BRL	7.3		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Chlorobenzene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Chloroethane	BRL	7.3		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Chloroform	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Chloromethane	BRL	7.3		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Cyclohexane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Dibromochloromethane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Ethylbenzene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Freon-113	BRL	7.3		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Isopropylbenzene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
m,p-Xylene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Methyl acetate	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-19-1-2-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 4:00:00 PM
Lab ID: 1611C79-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Methylene chloride	BRL	15		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
o-Xylene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Styrene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Tetrachloroethene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Toluene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Trichloroethene	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Vinyl chloride	BRL	7.3		ug/Kg-dry	233162	1	11/18/2016 03:44	MD
Surr: 4-Bromofluorobenzene	87.9	70-128		%REC	233162	1	11/18/2016 03:44	MD
Surr: Dibromofluoromethane	106	78.2-128		%REC	233162	1	11/18/2016 03:44	MD
Surr: Toluene-d8	95.8	76.5-116		%REC	233162	1	11/18/2016 03:44	MD
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Acenaphthylene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
1-Methylnaphthalene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
2-Methylnaphthalene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Acenaphthene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Fluorene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Phenanthrene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Anthracene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Pyrene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Benz(a)anthracene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Chrysene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Benzo(b)fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Benzo(k)fluoranthene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Benzo(a)pyrene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Dibenz(a,h)anthracene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Benzo(g,h,i)perylene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Indeno(1,2,3-cd)pyrene	BRL	340		ug/Kg-dry	232881	1	11/21/2016 21:38	RF
Surr: 2-Fluorobiphenyl	63.6	56.7-120		%REC	232881	1	11/21/2016 21:38	RF
Surr: 4-Terphenyl-d14	88.6	60-120		%REC	232881	1	11/21/2016 21:38	RF
Surr: Nitrobenzene-d5	54.5	52.6-120		%REC	232881	1	11/21/2016 21:38	RF
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	4.40	3.68		mg/Kg-dry	233239	1	11/18/2016 21:47	JL
Barium	12.2	3.68		mg/Kg-dry	233239	1	11/18/2016 21:47	JL

Qualifiers:

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-19-1-2-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 4:00:00 PM
Lab ID: 1611C79-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	1.84		mg/Kg-dry	233239	1	11/18/2016 21:47	JL
Chromium	3.54	1.84		mg/Kg-dry	233239	1	11/18/2016 21:47	JL
Lead	BRL	3.68		mg/Kg-dry	233239	1	11/18/2016 21:47	JL
Selenium	BRL	3.68		mg/Kg-dry	233239	1	11/18/2016 21:47	JL
Silver	BRL	1.84		mg/Kg-dry	233239	1	11/18/2016 21:47	JL
PERCENT MOISTURE D2216								
Percent Moisture	2.47	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-26-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/11/2016 5:00:00 PM
Lab ID: 1611C79-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.67		ug/Kg-dry	233234	1	11/18/2016 23:21	JE
Toluene	BRL	0.67		ug/Kg-dry	233234	1	11/18/2016 23:21	JE
Ethylbenzene	BRL	0.67		ug/Kg-dry	233234	1	11/18/2016 23:21	JE
m,p-Xylene	BRL	0.67		ug/Kg-dry	233234	1	11/18/2016 23:21	JE
o-Xylene	BRL	0.67		ug/Kg-dry	233234	1	11/18/2016 23:21	JE
Surr: 4-Bromofluorobenzene	74.9	70-128		%REC	233234	1	11/18/2016 23:21	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Acenaphthylene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
1-Methylnaphthalene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
2-Methylnaphthalene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Acenaphthene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Fluorene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Phenanthrene	430	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Anthracene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Fluoranthene	730	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Pyrene	650	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Benz(a)anthracene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Chrysene	910	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Benzo(b)fluoranthene	1100	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Benzo(k)fluoranthene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Benzo(a)pyrene	410	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Dibenz(a,h)anthracene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Benzo(g,h,i)perylene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Indeno(1,2,3-cd)pyrene	BRL	380		ug/Kg-dry	232881	1	11/21/2016 22:07	RF
Surr: 2-Fluorobiphenyl	71.2	56.7-120		%REC	232881	1	11/21/2016 22:07	RF
Surr: 4-Terphenyl-d14	86.8	60-120		%REC	232881	1	11/21/2016 22:07	RF
Surr: Nitrobenzene-d5	66.4	52.6-120		%REC	232881	1	11/21/2016 22:07	RF
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.32		mg/Kg-dry	233234	1	11/17/2016 23:15	JE
Surr: a.a.a-trifluorotoluene	115	69.8-134		%REC	233234	1	11/17/2016 23:15	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	56	7.7		mg/Kg-dry	232806	1	11/15/2016 16:22	RF
Surr: Dioctylphthalate	91	50.1-122		%REC	232806	1	11/15/2016 16:22	RF
PERCENT MOISTURE D2216								
Percent Moisture	13.4	0		wt%	R330288	1	11/18/2016 09:00	BD

Qualifiers:

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016
Lab ID: 1611C79-019	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
2-Butanone	BRL	50		ug/L	233191	1	11/18/2016 00:10	NP
2-Hexanone	BRL	10		ug/L	233191	1	11/18/2016 00:10	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233191	1	11/18/2016 00:10	NP
Acetone	BRL	50		ug/L	233191	1	11/18/2016 00:10	NP
Benzene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Bromodichloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Bromoform	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Bromomethane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Carbon disulfide	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Carbon tetrachloride	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Chlorobenzene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Chloroethane	BRL	10		ug/L	233191	1	11/18/2016 00:10	NP
Chloroform	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Chloromethane	BRL	10		ug/L	233191	1	11/18/2016 00:10	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Cyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Dibromochloromethane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Dichlorodifluoromethane	BRL	10		ug/L	233191	1	11/18/2016 00:10	NP
Ethylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Freon-113	BRL	10		ug/L	233191	1	11/18/2016 00:10	NP
Isopropylbenzene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
m,p-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Methyl acetate	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Methylcyclohexane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Methylene chloride	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
o-Xylene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP

Qualifiers:

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016
Lab ID: 1611C79-019	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Tetrachloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Toluene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Trichloroethene	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233191	1	11/18/2016 00:10	NP
Vinyl chloride	BRL	2.0		ug/L	233191	1	11/18/2016 00:10	NP
Surr: 4-Bromofluorobenzene	92.6	66.1-129		%REC	233191	1	11/18/2016 00:10	NP
Surr: Dibromofluoromethane	104	83.6-123		%REC	233191	1	11/18/2016 00:10	NP
Surr: Toluene-d8	99.9	81.8-118		%REC	233191	1	11/18/2016 00:10	NP

Qualifiers:

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- E Estimated (value above quantitation range)
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- NC Not confirmed
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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Resolute

Work Order Number 1611C79

Checklist completed by Pam Maxon 11/12/16
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 2.4° Cooler #2 4.5° Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by PM

Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Resolute Env. & Water Resources Consulting, LLC
 Project Name: Troutman Sanders Plant Kraft
 Lab Order: 1611C79

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611C79-001A	SB-45-4-0-1	11/10/2016 3:15:00PM	Soil	TOTAL METALS BY ICP		11/18/2016 2:47:00 PM	11/18/2016
1611C79-001A	SB-45-4-0-1	11/10/2016 3:15:00PM	Soil	MERCURY		11/16/2016 10:46:00 AM	11/16/2016
1611C79-001A	SB-45-4-0-1	11/10/2016 3:15:00PM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-002A	SB-45-3-0-1	11/10/2016 3:55:00PM	Soil	TOTAL METALS BY ICP		11/18/2016 2:47:00 PM	11/18/2016
1611C79-002A	SB-45-3-0-1	11/10/2016 3:55:00PM	Soil	MERCURY		11/16/2016 10:46:00 AM	11/16/2016
1611C79-002A	SB-45-3-0-1	11/10/2016 3:55:00PM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-003A	SB-46-2-0-1	11/10/2016 5:30:00PM	Soil	TCL VOLATILE ORGANICS		11/17/2016 9:31:00 AM	11/18/2016
1611C79-003B	SB-46-2-0-1	11/10/2016 5:30:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 10:00:00 AM	11/21/2016
1611C79-003C	SB-46-2-0-1	11/10/2016 5:30:00PM	Soil	TOTAL METALS BY ICP		11/18/2016 2:47:00 PM	11/18/2016
1611C79-003C	SB-46-2-0-1	11/10/2016 5:30:00PM	Soil	MERCURY		11/16/2016 10:46:00 AM	11/16/2016
1611C79-003D	SB-46-2-0-1	11/10/2016 5:30:00PM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-004A	SB-45-2-0-1	11/11/2016 8:10:00AM	Soil	TOTAL METALS BY ICP		11/18/2016 2:47:00 PM	11/18/2016
1611C79-004A	SB-45-2-0-1	11/11/2016 8:10:00AM	Soil	MERCURY		11/16/2016 10:46:00 AM	11/16/2016
1611C79-004A	SB-45-2-0-1	11/11/2016 8:10:00AM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-005A	SB-45-1-0-1	11/11/2016 8:25:00AM	Soil	TOTAL METALS BY ICP		11/18/2016 2:47:00 PM	11/18/2016
1611C79-005A	SB-45-1-0-1	11/11/2016 8:25:00AM	Soil	MERCURY		11/16/2016 10:46:00 AM	11/16/2016
1611C79-005A	SB-45-1-0-1	11/11/2016 8:25:00AM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-006A	SB-46-4-1-2	11/11/2016 9:25:00AM	Soil	TCL VOLATILE ORGANICS		11/17/2016 9:31:00 AM	11/18/2016
1611C79-006B	SB-46-4-1-2	11/11/2016 9:25:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 10:00:00 AM	11/15/2016
1611C79-006C	SB-46-4-1-2	11/11/2016 9:25:00AM	Soil	TOTAL METALS BY ICP		11/18/2016 2:47:00 PM	11/18/2016
1611C79-006C	SB-46-4-1-2	11/11/2016 9:25:00AM	Soil	MERCURY		11/16/2016 10:46:00 AM	11/16/2016
1611C79-006D	SB-46-4-1-2	11/11/2016 9:25:00AM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-007A	GW-46-4-8-12	11/11/2016 9:20:00AM	Groundwater	TCL VOLATILE ORGANICS		11/17/2016 5:56:00 PM	11/18/2016
1611C79-007B	GW-46-4-8-12	11/11/2016 9:20:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 9:00:00 AM	11/21/2016
1611C79-007C	GW-46-4-8-12	11/11/2016 9:20:00AM	Groundwater	TOTAL METALS BY ICP		11/18/2016 2:13:00 PM	11/18/2016
1611C79-007C	GW-46-4-8-12	11/11/2016 9:20:00AM	Groundwater	TOTAL MERCURY		11/18/2016 9:48:00 AM	11/18/2016
1611C79-008A	SB-11-0-1	11/11/2016 9:55:00AM	Soil	VOLATILE ORGANICS: BTEX		11/17/2016 3:05:00 PM	11/17/2016
1611C79-008A	SB-11-0-1	11/11/2016 9:55:00AM	Soil	GASOLINE RANGE ORGANICS		11/17/2016 3:05:00 PM	11/17/2016
1611C79-008B	SB-11-0-1	11/11/2016 9:55:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 10:00:00 AM	11/21/2016

Client: Resolute Env. & Water Resources Consulting, LLC
 Project Name: Troutman Sanders Plant Kraft
 Lab Order: 1611C79

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611C79-008B	SB-11-0-1	11/11/2016 9:55:00AM	Soil	DIESEL RANGE ORGANICS		11/15/2016 9:30:00 AM	11/15/2016
1611C79-008C	SB-11-0-1	11/11/2016 9:55:00AM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-009A	SB-46-1-1-2	11/11/2016 10:20:00AM	Soil	TCL VOLATILE ORGANICS		11/17/2016 9:31:00 AM	11/18/2016
1611C79-009B	SB-46-1-1-2	11/11/2016 10:20:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 10:00:00 AM	11/19/2016
1611C79-009C	SB-46-1-1-2	11/11/2016 10:20:00AM	Soil	TOTAL METALS BY ICP		11/18/2016 2:47:00 PM	11/18/2016
1611C79-009C	SB-46-1-1-2	11/11/2016 10:20:00AM	Soil	MERCURY		11/16/2016 10:46:00 AM	11/16/2016
1611C79-009D	SB-46-1-1-2	11/11/2016 10:20:00AM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-010A	SB-46-3-2-3.3	11/11/2016 12:05:00PM	Soil	TCL VOLATILE ORGANICS		11/17/2016 9:31:00 AM	11/18/2016
1611C79-010B	SB-46-3-2-3.3	11/11/2016 12:05:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 10:00:00 AM	11/19/2016
1611C79-010C	SB-46-3-2-3.3	11/11/2016 12:05:00PM	Soil	TOTAL METALS BY ICP		11/18/2016 2:47:00 PM	11/18/2016
1611C79-010C	SB-46-3-2-3.3	11/11/2016 12:05:00PM	Soil	MERCURY		11/16/2016 10:46:00 AM	11/16/2016
1611C79-010D	SB-46-3-2-3.3	11/11/2016 12:05:00PM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-011A	SB-47-4-5	11/11/2016 2:40:00PM	Soil	TCL VOLATILE ORGANICS		11/17/2016 9:31:00 AM	11/18/2016
1611C79-011B	SB-47-4-5	11/11/2016 2:40:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 10:00:00 AM	11/19/2016
1611C79-011C	SB-47-4-5	11/11/2016 2:40:00PM	Soil	TOTAL METALS BY ICP		11/18/2016 2:47:00 PM	11/18/2016
1611C79-011C	SB-47-4-5	11/11/2016 2:40:00PM	Soil	MERCURY		11/16/2016 10:46:00 AM	11/16/2016
1611C79-011D	SB-47-4-5	11/11/2016 2:40:00PM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-012A	FB-1	11/11/2016 6:20:00PM	Groundwater	TCL VOLATILE ORGANICS		11/17/2016 5:56:00 PM	11/18/2016
1611C79-012A	FB-1	11/11/2016 6:20:00PM	Groundwater	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/18/2016
1611C79-012B	FB-1	11/11/2016 6:20:00PM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 9:00:00 AM	11/21/2016
1611C79-012B	FB-1	11/11/2016 6:20:00PM	Groundwater	DIESEL RANGE ORGANICS		11/15/2016 11:00:00 AM	11/15/2016
1611C79-012C	FB-1	11/11/2016 6:20:00PM	Groundwater	TOTAL METALS BY ICP		11/18/2016 2:13:00 PM	11/18/2016
1611C79-012C	FB-1	11/11/2016 6:20:00PM	Groundwater	TOTAL MERCURY		11/18/2016 9:48:00 AM	11/18/2016
1611C79-013A	RB-1	11/11/2016 6:30:00PM	Groundwater	TCL VOLATILE ORGANICS		11/17/2016 5:56:00 PM	11/18/2016
1611C79-013A	RB-1	11/11/2016 6:30:00PM	Groundwater	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/18/2016
1611C79-013B	RB-1	11/11/2016 6:30:00PM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 9:00:00 AM	11/21/2016
1611C79-013B	RB-1	11/11/2016 6:30:00PM	Groundwater	DIESEL RANGE ORGANICS		11/15/2016 11:00:00 AM	11/15/2016
1611C79-013C	RB-1	11/11/2016 6:30:00PM	Groundwater	TOTAL METALS BY ICP		11/18/2016 2:13:00 PM	11/18/2016
1611C79-013C	RB-1	11/11/2016 6:30:00PM	Groundwater	TOTAL MERCURY		11/18/2016 9:48:00 AM	11/18/2016

Client: Resolute Env. & Water Resources Consulting, LLC
 Project Name: Troutman Sanders Plant Kraft
 Lab Order: 1611C79

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611C79-014A	GW-DUP-3	11/11/2016 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		11/17/2016 5:56:00 PM	11/18/2016
1611C79-014B	GW-DUP-3	11/11/2016 12:00:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 9:00:00 AM	11/21/2016
1611C79-014C	GW-DUP-3	11/11/2016 12:00:00AM	Groundwater	TOTAL METALS BY ICP		11/18/2016 2:13:00 PM	11/18/2016
1611C79-014C	GW-DUP-3	11/11/2016 12:00:00AM	Groundwater	TOTAL MERCURY		11/18/2016 9:48:00 AM	11/18/2016
1611C79-015A	GW-47-4-5	11/11/2016 2:40:00PM	Groundwater	TCL VOLATILE ORGANICS		11/17/2016 5:56:00 PM	11/18/2016
1611C79-015B	GW-47-4-5	11/11/2016 2:40:00PM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 9:00:00 AM	11/21/2016
1611C79-015C	GW-47-4-5	11/11/2016 2:40:00PM	Groundwater	TOTAL METALS BY ICP		11/18/2016 2:13:00 PM	11/18/2016
1611C79-015C	GW-47-4-5	11/11/2016 2:40:00PM	Groundwater	TOTAL MERCURY		11/18/2016 9:48:00 AM	11/18/2016
1611C79-016A	GW-19-1-2.3	11/11/2016 4:00:00PM	Groundwater	TCL VOLATILE ORGANICS		11/17/2016 5:56:00 PM	11/18/2016
1611C79-016B	GW-19-1-2.3	11/11/2016 4:00:00PM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 9:00:00 AM	11/21/2016
1611C79-016C	GW-19-1-2.3	11/11/2016 4:00:00PM	Groundwater	TOTAL METALS BY ICP		11/18/2016 2:13:00 PM	11/18/2016
1611C79-016C	GW-19-1-2.3	11/11/2016 4:00:00PM	Groundwater	TOTAL MERCURY		11/18/2016 9:48:00 AM	11/18/2016
1611C79-017A	SB-19-1-2-3	11/11/2016 4:00:00PM	Soil	TCL VOLATILE ORGANICS		11/17/2016 9:31:00 AM	11/18/2016
1611C79-017B	SB-19-1-2-3	11/11/2016 4:00:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 10:00:00 AM	11/21/2016
1611C79-017C	SB-19-1-2-3	11/11/2016 4:00:00PM	Soil	TOTAL METALS BY ICP		11/18/2016 2:47:00 PM	11/18/2016
1611C79-017C	SB-19-1-2-3	11/11/2016 4:00:00PM	Soil	MERCURY		11/16/2016 10:46:00 AM	11/16/2016
1611C79-017D	SB-19-1-2-3	11/11/2016 4:00:00PM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-018A	SB-26-1-2	11/11/2016 5:00:00PM	Soil	VOLATILE ORGANICS: BTEX		11/17/2016 3:05:00 PM	11/18/2016
1611C79-018A	SB-26-1-2	11/11/2016 5:00:00PM	Soil	GASOLINE RANGE ORGANICS		11/17/2016 3:05:00 PM	11/17/2016
1611C79-018B	SB-26-1-2	11/11/2016 5:00:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/15/2016 10:00:00 AM	11/21/2016
1611C79-018B	SB-26-1-2	11/11/2016 5:00:00PM	Soil	DIESEL RANGE ORGANICS		11/15/2016 9:30:00 AM	11/15/2016
1611C79-018C	SB-26-1-2	11/11/2016 5:00:00PM	Soil	PERCENT MOISTURE			11/18/2016
1611C79-019A	TRIP BLANK	11/12/2016 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		11/17/2016 5:56:00 PM	11/18/2016

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232797

Sample ID: MB-232797	Client ID:	Units: mg/L	Prep Date: 11/14/2016	Run No: 329862							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232797	Analysis Date: 11/14/2016	Seq No: 7167933							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diesel Range Organics BRL 0.20
 Surr: Dioctylphthalate 0.07302 0 0.1000 73.0 47 119

Sample ID: LCS-232797	Client ID:	Units: mg/L	Prep Date: 11/14/2016	Run No: 329862							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232797	Analysis Date: 11/14/2016	Seq No: 7167934							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diesel Range Organics 1.050 0.20 1.000 105 51.3 122
 Surr: Dioctylphthalate 0.09516 0 0.1000 95.2 47 119

Sample ID: 1611A02-003DMS	Client ID:	Units: mg/L	Prep Date: 11/14/2016	Run No: 329862							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232797	Analysis Date: 11/14/2016	Seq No: 7167938							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diesel Range Organics 0.9226 0.20 1.000 0.1814 74.1 45.2 135
 Surr: Dioctylphthalate 0.06482 0 0.1000 64.8 47 119

Sample ID: 1611A02-003DMSD	Client ID:	Units: mg/L	Prep Date: 11/14/2016	Run No: 329862							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232797	Analysis Date: 11/14/2016	Seq No: 7167939							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diesel Range Organics 0.8334 0.20 1.000 0.1814 65.2 45.2 135 0.9226 10.2 26.3
 Surr: Dioctylphthalate 0.07008 0 0.1000 70.1 47 119 0.06482 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232806

Sample ID: MB-232806	Client ID:	Units: mg/Kg	Prep Date: 11/14/2016	Run No: 329863							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232806	Analysis Date: 11/14/2016	Seq No: 7167968							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.681 0 3.300 81.2 50.1 122

Sample ID: LCS-232806	Client ID:	Units: mg/Kg	Prep Date: 11/14/2016	Run No: 329863							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232806	Analysis Date: 11/14/2016	Seq No: 7167969							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 32.74 6.7 33.30 98.3 56.4 119
 Surr: Dioctylphthalate 2.716 0 3.330 81.6 50.1 122

Sample ID: 1611C16-003BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 11/14/2016	Run No: 329863							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232806	Analysis Date: 11/14/2016	Seq No: 7167976							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 44.19 8.1 40.21 4.083 99.8 43.6 123
 Surr: Dioctylphthalate 3.383 0 4.021 84.1 50.1 122

Sample ID: 1611C16-003BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 11/14/2016	Run No: 329863							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232806	Analysis Date: 11/14/2016	Seq No: 7167977							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 47.53 8.1 40.21 4.083 108 43.6 123 44.19 7.28 25.7
 Surr: Dioctylphthalate 3.688 0 4.021 91.7 50.1 122 3.383 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232881

Sample ID: MB-232881	Client ID:	Units: ug/Kg	Prep Date: 11/15/2016	Run No: 329827							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232881	Analysis Date: 11/15/2016	Seq No: 7168524							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	330									
2-Methylnaphthalene	BRL	330									
Acenaphthene	BRL	330									
Acenaphthylene	BRL	330									
Anthracene	BRL	330									
Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Benzo(g,h,i)perylene	BRL	330									
Benzo(k)fluoranthene	BRL	330									
Chrysene	BRL	330									
Dibenz(a,h)anthracene	BRL	330									
Fluoranthene	BRL	330									
Fluorene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Naphthalene	BRL	330									
Phenanthrene	BRL	330									
Pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1213	0	1667		72.8	56.7	120				
Surr: 4-Terphenyl-d14	1389	0	1667		83.3	60	120				
Surr: Nitrobenzene-d5	1242	0	1667		74.5	52.6	120				

Sample ID: LCS-232881	Client ID:	Units: ug/Kg	Prep Date: 11/15/2016	Run No: 329827							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232881	Analysis Date: 11/15/2016	Seq No: 7168525							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1284	330	1667		77.1	66.4	120				
2-Methylnaphthalene	1250	330	1667		75.0	64.8	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232881

Sample ID: LCS-232881	Client ID:	Units: ug/Kg	Prep Date: 11/15/2016	Run No: 329827							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232881	Analysis Date: 11/15/2016	Seq No: 7168525							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	1361	330	1667		81.6	70.1	120				
Acenaphthylene	1349	330	1667		81.0	68.5	120				
Anthracene	1405	330	1667		84.3	71.7	120				
Benz(a)anthracene	1453	330	1667		87.2	74.9	120				
Benzo(a)pyrene	1447	330	1667		86.8	64.3	120				
Benzo(b)fluoranthene	1616	330	1667		96.9	69.9	120				
Benzo(g,h,i)perylene	1491	330	1667		89.5	70.9	120				
Benzo(k)fluoranthene	1428	330	1667		85.7	67.3	120				
Chrysene	1464	330	1667		87.8	74.1	120				
Dibenz(a,h)anthracene	1440	330	1667		86.4	62.7	120				
Fluoranthene	1468	330	1667		88.1	74.6	120				
Fluorene	1346	330	1667		80.7	72.2	120				
Indeno(1,2,3-cd)pyrene	1469	330	1667		88.1	66.3	120				
Naphthalene	1270	330	1667		76.2	63.5	120				
Phenanthrene	1411	330	1667		84.6	73.5	120				
Pyrene	1452	330	1667		87.1	67.9	120				
Surr: 2-Fluorobiphenyl	1232	0	1667		73.9	56.7	120				
Surr: 4-Terphenyl-d14	1303	0	1667		78.2	60	120				
Surr: Nitrobenzene-d5	1241	0	1667		74.5	52.6	120				

Sample ID: 1611C79-006BMS	Client ID: SB-46-4-1-2	Units: ug/Kg-dry	Prep Date: 11/15/2016	Run No: 329827							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232881	Analysis Date: 11/16/2016	Seq No: 7170957							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1314	340	1731		75.9	61.1	120				
2-Methylnaphthalene	1260	340	1731		72.8	57.4	120				
Acenaphthene	1428	340	1731		82.5	60.2	120				
Acenaphthylene	1391	340	1731		80.4	59.9	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232881

Sample ID: 1611C79-006BMS	Client ID: SB-46-4-1-2	Units: ug/Kg-dry	Prep Date: 11/15/2016	Run No: 329827							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232881	Analysis Date: 11/16/2016	Seq No: 7170957							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	1463	340	1731		84.5	59.6	120				
Benz(a)anthracene	1564	340	1731		90.4	64.8	120				
Benzo(a)pyrene	1494	340	1731		86.3	56.1	120				
Benzo(b)fluoranthene	1775	340	1731		103	60	126				
Benzo(g,h,i)perylene	1033	340	1731		59.7	56.1	123				
Benzo(k)fluoranthene	1534	340	1731		88.6	55.2	120				
Chrysene	1549	340	1731		89.5	57.9	120				
Dibenz(a,h)anthracene	1127	340	1731		65.1	54.4	119				
Fluoranthene	1553	340	1731		89.7	58.3	119				
Fluorene	1426	340	1731		82.3	61.9	120				
Indeno(1,2,3-cd)pyrene	1128	340	1731		65.2	52.4	124				
Naphthalene	1278	340	1731		73.8	52.7	120				
Phenanthrene	1499	340	1731		86.6	57.7	120				
Pyrene	1517	340	1731		87.6	57.9	120				
Surr: 2-Fluorobiphenyl	1245	0	1731		71.9	56.7	120				
Surr: 4-Terphenyl-d14	1380	0	1731		79.7	60	120				
Surr: Nitrobenzene-d5	1118	0	1731		64.6	52.6	120				

Sample ID: 1611C79-006BMSD	Client ID: SB-46-4-1-2	Units: ug/Kg-dry	Prep Date: 11/15/2016	Run No: 329827							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232881	Analysis Date: 11/16/2016	Seq No: 7170958							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1393	340	1731		80.5	61.1	120	1314	5.88	20	
2-Methylnaphthalene	1291	340	1731		74.6	57.4	120	1260	2.44	20.9	
Acenaphthene	1471	340	1731		84.9	60.2	120	1428	2.96	22.6	
Acenaphthylene	1434	340	1731		82.8	59.9	120	1391	3.02	26.3	
Anthracene	1550	340	1731		89.5	59.6	120	1463	5.79	24.5	
Benz(a)anthracene	1612	340	1731		93.1	64.8	120	1564	3.03	20.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232881

Sample ID: 1611C79-006BMSD	Client ID: SB-46-4-1-2	Units: ug/Kg-dry	Prep Date: 11/15/2016	Run No: 329827							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232881	Analysis Date: 11/16/2016	Seq No: 7170958							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzo(a)pyrene	1580	340	1731		91.3	56.1	120	1494	5.61	21.1	
Benzo(b)fluoranthene	1859	340	1731		107	60	126	1775	4.63	23	
Benzo(g,h,i)perylene	1110	340	1731		64.1	56.1	123	1033	7.14	22.6	
Benzo(k)fluoranthene	1605	340	1731		92.7	55.2	120	1534	4.50	30	
Chrysene	1570	340	1731		90.7	57.9	120	1549	1.35	20.9	
Dibenz(a,h)anthracene	1232	340	1731		71.1	54.4	119	1127	8.90	26.9	
Fluoranthene	1650	340	1731		95.3	58.3	119	1553	6.05	26.6	
Fluorene	1484	340	1731		85.7	61.9	120	1426	4.02	23.8	
Indeno(1,2,3-cd)pyrene	1220	340	1731		70.5	52.4	124	1128	7.81	30.1	
Naphthalene	1317	340	1731		76.1	52.7	120	1278	2.96	22.1	
Phenanthrene	1576	340	1731		91.0	57.7	120	1499	4.98	25.8	
Pyrene	1590	340	1731		91.8	57.9	120	1517	4.66	25.2	
Surr: 2-Fluorobiphenyl	1318	0	1731		76.1	56.7	120	1245	0	0	
Surr: 4-Terphenyl-d14	1438	0	1731		83.1	60	120	1380	0	0	
Surr: Nitrobenzene-d5	1172	0	1731		67.7	52.6	120	1118	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232885

Sample ID: MB-232885	Client ID:	Units: ug/L	Prep Date: 11/15/2016	Run No: 329828							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232885	Analysis Date: 11/15/2016	Seq No: 7168195							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	10									
2-Methylnaphthalene	BRL	10									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Chrysene	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Naphthalene	BRL	10									
Phenanthrene	BRL	10									
Pyrene	BRL	10									
Surr: 2-Fluorobiphenyl	42.21	0	50.00		84.4	55.6	120				
Surr: 4-Terphenyl-d14	39.61	0	50.00		79.2	45.7	120				
Surr: Nitrobenzene-d5	45.42	0	50.00		90.8	56.9	120				

Sample ID: LCS-232885	Client ID:	Units: ug/L	Prep Date: 11/15/2016	Run No: 329828							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232885	Analysis Date: 11/15/2016	Seq No: 7168523							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	40.57	10	50.00		81.1	67.6	120				
2-Methylnaphthalene	38.76	10	50.00		77.5	65.5	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232885

Sample ID: LCS-232885	Client ID:	Units: ug/L	Prep Date: 11/15/2016	Run No: 329828							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232885	Analysis Date: 11/15/2016	Seq No: 7168523							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	43.71	10	50.00		87.4	70	120				
Acenaphthylene	43.31	10	50.00		86.6	70	120				
Anthracene	46.26	10	50.00		92.5	70	120				
Benz(a)anthracene	47.26	10	50.00		94.5	70	117				
Benzo(a)pyrene	48.95	10	50.00		97.9	70	117				
Benzo(b)fluoranthene	52.25	10	50.00		104	70	130				
Benzo(g,h,i)perylene	48.47	10	50.00		96.9	68.6	127				
Benzo(k)fluoranthene	48.08	10	50.00		96.2	70	120				
Chrysene	47.89	10	50.00		95.8	70	120				
Dibenz(a,h)anthracene	47.23	10	50.00		94.5	64.3	123				
Fluoranthene	49.37	10	50.00		98.7	70	120				
Fluorene	43.51	10	50.00		87.0	70	120				
Indeno(1,2,3-cd)pyrene	47.68	10	50.00		95.4	66.5	123				
Naphthalene	39.83	10	50.00		79.7	64.1	120				
Phenanthrene	47.69	10	50.00		95.4	70	120				
Pyrene	47.91	10	50.00		95.8	70	120				
Surr: 2-Fluorobiphenyl	40.64	0	50.00		81.3	55.6	120				
Surr: 4-Terphenyl-d14	44.55	0	50.00		89.1	45.7	120				
Surr: Nitrobenzene-d5	40.41	0	50.00		80.8	56.9	120				

Sample ID: 1611D12-004BMS	Client ID:	Units: ug/L	Prep Date: 11/15/2016	Run No: 329828							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232885	Analysis Date: 11/15/2016	Seq No: 7170967							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	37.89	10	50.00		75.8	57.6	120				
2-Methylnaphthalene	36.53	10	50.00		73.1	52.1	120				
Acenaphthene	43.85	10	50.00		87.7	56.5	119				
Acenaphthylene	41.79	10	50.00		83.6	60.6	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232885

Sample ID: 1611D12-004BMS	Client ID:	Units: ug/L	Prep Date: 11/15/2016	Run No: 329828							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232885	Analysis Date: 11/15/2016	Seq No: 7170967							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	41.92	10	50.00		83.8	60	121				
Benz(a)anthracene	45.55	10	50.00		91.1	70.9	122				
Benzo(a)pyrene	40.11	10	50.00		80.2	61.2	122				
Benzo(b)fluoranthene	47.66	10	50.00		95.3	66	133				
Benzo(g,h,i)perylene	45.14	10	50.00		90.3	59	131				
Benzo(k)fluoranthene	44.61	10	50.00		89.2	64	120				
Chrysene	45.09	10	50.00		90.2	70.8	120				
Dibenz(a,h)anthracene	44.30	10	50.00		88.6	55.5	127				
Fluoranthene	46.65	10	50.00		93.3	71.9	121				
Fluorene	43.79	10	50.00		87.6	64.4	118				
Indeno(1,2,3-cd)pyrene	43.55	10	50.00		87.1	58.1	128				
Naphthalene	35.62	10	50.00		71.2	51.3	120				
Phenanthrene	45.01	10	50.00		90.0	70.7	120				
Pyrene	46.64	10	50.00		93.3	60.9	123				
Surr: 2-Fluorobiphenyl	37.59	0	50.00		75.2	55.6	120				
Surr: 4-Terphenyl-d14	42.03	0	50.00		84.1	45.7	120				
Surr: Nitrobenzene-d5	33.10	0	50.00		66.2	56.9	120				

Sample ID: 1611D12-004BMSD	Client ID:	Units: ug/L	Prep Date: 11/15/2016	Run No: 329828							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232885	Analysis Date: 11/15/2016	Seq No: 7170968							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	38.65	10	50.00		77.3	57.6	120	37.89	1.99	23.3	
2-Methylnaphthalene	37.22	10	50.00		74.4	52.1	120	36.53	1.87	24	
Acenaphthene	41.95	10	50.00		83.9	56.5	119	43.85	4.43	20.7	
Acenaphthylene	39.86	10	50.00		79.7	60.6	120	41.79	4.73	20.5	
Anthracene	40.85	10	50.00		81.7	60	121	41.92	2.59	22.4	
Benz(a)anthracene	42.29	10	50.00		84.6	70.9	122	45.55	7.42	18.6	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232885

Sample ID: 1611D12-004BMSD	Client ID:	Units: ug/L	Prep Date: 11/15/2016	Run No: 329828
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 232885	Analysis Date: 11/15/2016	Seq No: 7170968

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(a)pyrene	37.80	10	50.00		75.6	61.2	122	40.11	5.93	22.2	
Benzo(b)fluoranthene	44.97	10	50.00		89.9	66	133	47.66	5.81	19.3	
Benzo(g,h,i)perylene	41.45	10	50.00		82.9	59	131	45.14	8.52	20.5	
Benzo(k)fluoranthene	42.13	10	50.00		84.3	64	120	44.61	5.72	19.7	
Chrysene	42.58	10	50.00		85.2	70.8	120	45.09	5.73	17.4	
Dibenz(a,h)anthracene	40.26	10	50.00		80.5	55.5	127	44.30	9.56	22.6	
Fluoranthene	44.68	10	50.00		89.4	71.9	121	46.65	4.31	20	
Fluorene	41.18	10	50.00		82.4	64.4	118	43.79	6.14	19.9	
Indeno(1,2,3-cd)pyrene	40.57	10	50.00		81.1	58.1	128	43.55	7.09	20.8	
Naphthalene	38.09	10	50.00		76.2	51.3	120	35.62	6.70	21.5	
Phenanthrene	44.10	10	50.00		88.2	70.7	120	45.01	2.04	20	
Pyrene	44.29	10	50.00		88.6	60.9	123	46.64	5.17	18.6	
Surr: 2-Fluorobiphenyl	38.06	0	50.00		76.1	55.6	120	37.59	0	0	
Surr: 4-Terphenyl-d14	38.92	0	50.00		77.8	45.7	120	42.03	0	0	
Surr: Nitrobenzene-d5	38.61	0	50.00		77.2	56.9	120	33.10	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 232972

Sample ID: MB-232972	Client ID:	Units: mg/Kg	Prep Date: 11/16/2016	Run No: 330041							
SampleType: MBLK	TestCode: TOTAL MERCURY SW7471B	BatchID: 232972	Analysis Date: 11/16/2016	Seq No: 7172158							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: LCS-232972	Client ID:	Units: mg/Kg	Prep Date: 11/16/2016	Run No: 330041							
SampleType: LCS	TestCode: TOTAL MERCURY SW7471B	BatchID: 232972	Analysis Date: 11/16/2016	Seq No: 7172159							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.3270 0.100 0.4000 81.7 80 120

Sample ID: 1611C79-002AMS	Client ID: SB-45-3-0-1	Units: mg/Kg-dry	Prep Date: 11/16/2016	Run No: 330041							
SampleType: MS	TestCode: TOTAL MERCURY SW7471B	BatchID: 232972	Analysis Date: 11/16/2016	Seq No: 7172161							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.4414 0.0952 0.3808 0.01634 112 70 130

Sample ID: 1611C79-002AMSD	Client ID: SB-45-3-0-1	Units: mg/Kg-dry	Prep Date: 11/16/2016	Run No: 330041							
SampleType: MSD	TestCode: TOTAL MERCURY SW7471B	BatchID: 232972	Analysis Date: 11/16/2016	Seq No: 7172162							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.3906 0.0937 0.3748 0.01634 99.9 70 130 0.4414 12.2 30

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233054

Sample ID: MB-233054	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330032							
SampleType: MBLK	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7172044							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics) BRL 0.50
 Surr: a.a.a-trifluorotoluene 0.05334 0 0.0500 107 75.1 120

Sample ID: LCS-233054	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330032							
SampleType: LCS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7173030							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics) 1.128 0.50 1.000 113 69.9 126
 Surr: a.a.a-trifluorotoluene 0.05322 0 0.0500 106 75.1 120

Sample ID: 1611A16-019AMS	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330032							
SampleType: MS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7173031							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics) 1.570 0.50 1.000 0.3421 123 65.8 133
 Surr: a.a.a-trifluorotoluene 0.05871 0 0.0500 117 75.1 120

Sample ID: 1611A16-019AMSD	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330032							
SampleType: MSD	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7173032							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics) 1.482 0.50 1.000 0.3421 114 65.8 133 1.570 5.76 20
 Surr: a.a.a-trifluorotoluene 0.05413 0 0.0500 108 75.1 120 0.05871 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233130

Sample ID: MB-233130	Client ID:	Units: mg/L	Prep Date: 11/17/2016	Run No: 330291							
SampleType: MBLK	TestCode: Mercury, Total SW7470A	BatchID: 233130	Analysis Date: 11/17/2016	Seq No: 7179284							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00020

Sample ID: LCS-233130	Client ID:	Units: mg/L	Prep Date: 11/17/2016	Run No: 330291							
SampleType: LCS	TestCode: Mercury, Total SW7470A	BatchID: 233130	Analysis Date: 11/17/2016	Seq No: 7179285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004569 0.00020 0.0050 91.4 80 120

Sample ID: 1611F40-001AMS	Client ID:	Units: mg/L	Prep Date: 11/17/2016	Run No: 330291							
SampleType: MS	TestCode: Mercury, Total SW7470A	BatchID: 233130	Analysis Date: 11/17/2016	Seq No: 7179291							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004577 0.00020 0.0050 91.5 70 130

Sample ID: 1611F40-001AMSD	Client ID:	Units: mg/L	Prep Date: 11/17/2016	Run No: 330291							
SampleType: MSD	TestCode: Mercury, Total SW7470A	BatchID: 233130	Analysis Date: 11/17/2016	Seq No: 7179293							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004538 0.00020 0.0050 90.8 70 130 0.004577 0.865 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233147

Sample ID: MB-233147	Client ID:	Units: mg/L	Prep Date: 11/18/2016	Run No: 330319							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 233147	Analysis Date: 11/18/2016	Seq No: 7180190							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Lead	BRL	0.0100									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									

Sample ID: LCS-233147	Client ID:	Units: mg/L	Prep Date: 11/18/2016	Run No: 330319							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 233147	Analysis Date: 11/18/2016	Seq No: 7180191							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.036	0.0500	1.000		104	80	120				
Barium	1.014	0.0200	1.000		101	80	120				
Cadmium	1.060	0.0050	1.000		106	80	120				
Chromium	1.042	0.0100	1.000		104	80	120				
Lead	1.025	0.0100	1.000		102	80	120				
Selenium	1.057	0.0200	1.000		106	80	120				
Silver	0.1026	0.0100	0.1000		103	80	120				

Sample ID: 1611A02-018AMS	Client ID:	Units: mg/L	Prep Date: 11/18/2016	Run No: 330319							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 233147	Analysis Date: 11/18/2016	Seq No: 7180195							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.045	0.0500	1.000		105	75	125				
Barium	1.347	0.0200	1.000	0.4122	93.5	75	125				
Cadmium	1.065	0.0050	1.000		106	75	125				
Chromium	1.075	0.0100	1.000	0.05416	102	75	125				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233147

Sample ID: 1611A02-018AMS	Client ID:	Units: mg/L	Prep Date: 11/18/2016	Run No: 330319							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 233147	Analysis Date: 11/18/2016	Seq No: 7180195							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	1.025	0.0100	1.000	0.02236	100	75	125				
Selenium	1.072	0.0200	1.000		107	75	125				
Silver	0.1016	0.0100	0.1000		102	75	125				

Sample ID: 1611A02-018AMSD	Client ID:	Units: mg/L	Prep Date: 11/18/2016	Run No: 330319							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 233147	Analysis Date: 11/18/2016	Seq No: 7180196							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.027	0.0500	1.000		103	75	125	1.045	1.81	20	
Barium	1.430	0.0200	1.000	0.4122	102	75	125	1.347	5.94	20	
Cadmium	1.059	0.0050	1.000		106	75	125	1.065	0.502	20	
Chromium	1.111	0.0100	1.000	0.05416	106	75	125	1.075	3.27	20	
Lead	1.019	0.0100	1.000	0.02236	99.6	75	125	1.025	0.644	20	
Selenium	1.043	0.0200	1.000		104	75	125	1.072	2.75	20	
Silver	0.1009	0.0100	0.1000		101	75	125	0.1016	0.678	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233162

Sample ID: MB-233162	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330124							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233162	Analysis Date: 11/17/2016	Seq No: 7175543							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233162

Sample ID: MB-233162	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330124							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233162	Analysis Date: 11/17/2016	Seq No: 7175543							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	48.64	0	50.00		97.3	70	128				
Surr: Dibromofluoromethane	55.15	0	50.00		110	78.2	128				
Surr: Toluene-d8	48.12	0	50.00		96.2	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233162

Sample ID: LCS-233162	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330124							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233162	Analysis Date: 11/17/2016	Seq No: 7175544							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.49	5.0	50.00		101	69.9	145				
Benzene	53.78	5.0	50.00		108	72.3	130				
Chlorobenzene	56.66	5.0	50.00		113	69	130				
Toluene	55.92	5.0	50.00		112	71.1	130				
Trichloroethene	55.66	5.0	50.00		111	71.7	136				
Surr: 4-Bromofluorobenzene	46.09	0	50.00		92.2	70	128				
Surr: Dibromofluoromethane	49.45	0	50.00		98.9	78.2	128				
Surr: Toluene-d8	47.13	0	50.00		94.3	76.5	116				

Sample ID: 1611B27-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330211							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233162	Analysis Date: 11/17/2016	Seq No: 7177182							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	46.05	5.7	57.44		80.2	56.6	151				
Benzene	49.31	5.7	57.44		85.8	70.4	130				
Chlorobenzene	49.95	5.7	57.44		87.0	67.5	132				
Toluene	50.80	5.7	57.44		88.4	70.4	130				
Trichloroethene	48.46	5.7	57.44		84.4	70.1	137				
Surr: 4-Bromofluorobenzene	52.92	0	57.44		92.1	70	128				
Surr: Dibromofluoromethane	59.28	0	57.44		103	78.2	128				
Surr: Toluene-d8	54.27	0	57.44		94.5	76.5	116				

Sample ID: 1611B27-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330211							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233162	Analysis Date: 11/17/2016	Seq No: 7177183							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	49.70	5.7	57.44		86.5	56.6	151	46.05	7.63	20.4	
Benzene	51.45	5.7	57.44		89.6	70.4	130	49.31	4.24	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233162

Sample ID: 1611B27-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330211							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233162	Analysis Date: 11/17/2016	Seq No: 7177183							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	51.29	5.7	57.44		89.3	67.5	132	49.95	2.63	14.6	
Toluene	51.02	5.7	57.44		88.8	70.4	130	50.80	0.429	16.6	
Trichloroethene	51.89	5.7	57.44		90.3	70.1	137	48.46	6.85	17	
Surr: 4-Bromofluorobenzene	56.17	0	57.44		97.8	70	128	52.92	0	0	
Surr: Dibromofluoromethane	61.27	0	57.44		107	78.2	128	59.28	0	0	
Surr: Toluene-d8	54.64	0	57.44		95.1	76.5	116	54.27	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233191

Sample ID: MB-233191	Client ID:	Units: ug/L	Prep Date: 11/17/2016	Run No: 330223							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233191	Analysis Date: 11/17/2016	Seq No: 7177555							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233191

Sample ID: MB-233191	Client ID:	Units: ug/L	Prep Date: 11/17/2016	Run No: 330223							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233191	Analysis Date: 11/17/2016	Seq No: 7177555							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.44	0	50.00		92.9	66.1	129				
Surr: Dibromofluoromethane	51.56	0	50.00		103	83.6	123				
Surr: Toluene-d8	49.75	0	50.00		99.5	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233191

Sample ID: LCS-233191	Client ID:	Units: ug/L	Prep Date: 11/17/2016	Run No: 330223							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233191	Analysis Date: 11/17/2016	Seq No: 7177554							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	56.73	5.0	50.00		113	68	139				
Benzene	53.84	5.0	50.00		108	74	125				
Chlorobenzene	51.00	5.0	50.00		102	75.7	123				
Toluene	54.46	5.0	50.00		109	75.9	126				
Trichloroethene	52.80	5.0	50.00		106	70.6	129				
Surr: 4-Bromofluorobenzene	45.81	0	50.00		91.6	66.1	129				
Surr: Dibromofluoromethane	51.17	0	50.00		102	83.6	123				
Surr: Toluene-d8	48.80	0	50.00		97.6	81.8	118				

Sample ID: 1611C80-007AMS	Client ID:	Units: ug/L	Prep Date: 11/17/2016	Run No: 330223							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233191	Analysis Date: 11/18/2016	Seq No: 7177682							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	28070	2500	25000		112	64.3	149				
Benzene	27490	2500	25000	1140	105	71.6	132				
Chlorobenzene	24890	2500	25000		99.5	73.1	126				
Toluene	57470	2500	25000	31290	105	72.5	135				
Trichloroethene	25950	2500	25000		104	70.2	132				
Surr: 4-Bromofluorobenzene	22650	0	25000		90.6	66.1	129				
Surr: Dibromofluoromethane	25430	0	25000		102	83.6	123				
Surr: Toluene-d8	24920	0	25000		99.7	81.8	118				

Sample ID: 1611C80-007AMSD	Client ID:	Units: ug/L	Prep Date: 11/17/2016	Run No: 330223							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233191	Analysis Date: 11/18/2016	Seq No: 7177683							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	26500	2500	25000		106	64.3	149	28070	5.74	30.8	
Benzene	26290	2500	25000	1140	101	71.6	132	27490	4.48	20.7	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233191

Sample ID: 1611C80-007AMSD	Client ID:	Units: ug/L	Prep Date: 11/17/2016	Run No: 330223
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233191	Analysis Date: 11/18/2016	Seq No: 7177683

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	23990	2500	25000		96.0	73.1	126	24890	3.66	26.6	
Toluene	55760	2500	25000	31290	97.9	72.5	135	57470	3.03	23.2	
Trichloroethene	24890	2500	25000		99.6	70.2	132	25950	4.15	27.7	
Surr: 4-Bromofluorobenzene	23590	0	25000		94.3	66.1	129	22650	0	0	
Surr: Dibromofluoromethane	24920	0	25000		99.7	83.6	123	25430	0	0	
Surr: Toluene-d8	24640	0	25000		98.6	81.8	118	24920	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233234

Sample ID: MB-233234	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330181							
SampleType: MBLK	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177881							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
o-Xylene	BRL	1.0									
Toluene	BRL	1.0									
Surr: 4-Bromofluorobenzene	42.29	0	50.00		84.6	70	128				

Sample ID: MB-233234	Client ID:	Units: mg/Kg	Prep Date: 11/17/2016	Run No: 330186							
SampleType: MBLK	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177962							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	BRL	0.50									
Surr: a.a.a-trifluorotoluene	0.05679	0	0.0500		114	69.8	134				

Sample ID: LCS-233234	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330181							
SampleType: LCS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177889							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	47.73	1.0	50.00		95.5	72.3	130				
Ethylbenzene	47.05	1.0	50.00		94.1	70.4	130				
m,p-Xylene	95.22	1.0	100.0		95.2	70.1	130				
o-Xylene	47.21	1.0	50.00		94.4	70.1	128				
Toluene	44.42	1.0	50.00		88.8	71.1	130				
Surr: 4-Bromofluorobenzene	42.56	0	50.00		85.1	70	128				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233234

Sample ID: LCS-233234	Client ID:	Units: mg/Kg	Prep Date: 11/17/2016	Run No: 330186							
SampleType: LCS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177966							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	0.8303	0.50	1.000		83.0	68.9	129				
Surr: a.a.a-trifluorotoluene	0.05813	0	0.0500		116	69.8	134				

Sample ID: 1611C79-008AMS	Client ID: SB-11-0-1	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330181							
SampleType: MS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177891							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	58.62	1.2	60.00		97.7	70.4	130				
Ethylbenzene	55.15	1.2	60.00		91.9	64.9	136				
m,p-Xylene	115.8	1.2	120.0		96.5	60.2	138				
o-Xylene	56.47	1.2	60.00		94.1	61.5	134				
Toluene	56.04	1.2	60.00		93.4	70.4	130				
Surr: 4-Bromofluorobenzene	54.37	0	60.00		90.6	70	128				

Sample ID: 1611C79-008AMS	Client ID: SB-11-0-1	Units: mg/Kg-dry	Prep Date: 11/17/2016	Run No: 330186							
SampleType: MS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177968							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	0.9411	0.60	1.200		78.4	61.1	134				
Surr: a.a.a-trifluorotoluene	0.06789	0	0.0600		113	69.8	134				

Sample ID: 1611C79-008AMSD	Client ID: SB-11-0-1	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330181							
SampleType: MSD	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177892							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	58.27	1.2	60.00		97.1	70.4	130	58.62	0.595	16.9	
Ethylbenzene	53.99	1.2	60.00		90.0	64.9	136	55.15	2.13	16.3	
m,p-Xylene	112.7	1.2	120.0		93.9	60.2	138	115.8	2.73	16.3	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233234

Sample ID: 1611C79-008AMSD	Client ID: SB-11-0-1	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330181							
SampleType: MSD	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177892							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

o-Xylene	56.78	1.2	60.00		94.6	61.5	134	56.47	0.551	16.1	
Toluene	53.17	1.2	60.00		88.6	70.4	130	56.04	5.25	16.6	
Surr: 4-Bromofluorobenzene	56.75	0	60.00		94.6	70	128	54.37	0	0	

Sample ID: 1611C79-008AMSD	Client ID: SB-11-0-1	Units: mg/Kg-dry	Prep Date: 11/17/2016	Run No: 330186							
SampleType: MSD	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177969							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	0.9366	0.60	1.200		78.0	61.1	134	0.9411	0.481	20	
Surr: a.a.a-trifluorotoluene	0.06816	0	0.0600		114	69.8	134	0.06789	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233239

Sample ID: MB-233239	Client ID:	Units: mg/Kg	Prep Date: 11/18/2016	Run No: 330360							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 233239	Analysis Date: 11/18/2016	Seq No: 7181803							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	5.00									
Barium	BRL	5.00									
Cadmium	BRL	2.50									
Chromium	BRL	2.50									
Lead	BRL	5.00									
Selenium	BRL	5.00									
Silver	BRL	2.50									

Sample ID: LCS-233239	Client ID:	Units: mg/Kg	Prep Date: 11/18/2016	Run No: 330360							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 233239	Analysis Date: 11/18/2016	Seq No: 7181804							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	41.16	5.00	50.00		82.3	80	120				
Barium	46.35	5.00	50.00		92.7	80	120				
Cadmium	43.33	2.50	50.00	0.04250	86.6	80	120				
Chromium	46.59	2.50	50.00	0.06450	93.1	80	120				
Lead	44.37	5.00	50.00		88.7	80	120				
Silver	4.460	2.50	5.000		89.2	80	120				

Sample ID: LCS-233239	Client ID:	Units: mg/Kg	Prep Date: 11/18/2016	Run No: 330360							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 233239	Analysis Date: 11/21/2016	Seq No: 7182285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Selenium	40.28	5.00	50.00		80.6	80	120				
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611C79

ANALYTICAL QC SUMMARY REPORT

BatchID: 233239

Sample ID: 1611C79-001AMS	Client ID: SB-45-4-0-1	Units: mg/Kg-dry	Prep Date: 11/18/2016	Run No: 330360							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 233239	Analysis Date: 11/18/2016	Seq No: 7181808							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	34.58	3.96	39.65	0.3691	86.3	75	125				
Barium	47.93	3.96	39.65	8.457	99.6	75	125				
Cadmium	35.78	1.98	39.65	0.1179	89.9	75	125				
Chromium	41.85	1.98	39.65	3.368	97.1	75	125				
Lead	49.90	3.96	39.65	8.310	105	75	125				
Selenium	28.91	3.96	39.65		72.9	75	125				S
Silver	3.635	1.98	3.965	0.01958	91.2	75	125				

Sample ID: 1611C79-001AMSD	Client ID: SB-45-4-0-1	Units: mg/Kg-dry	Prep Date: 11/18/2016	Run No: 330360							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 233239	Analysis Date: 11/18/2016	Seq No: 7181809							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	33.35	3.85	38.47	0.3691	85.7	75	125	34.58	3.62	20	
Barium	45.70	3.85	38.47	8.457	96.8	75	125	47.93	4.76	20	
Cadmium	35.19	1.92	38.47	0.1179	91.2	75	125	35.78	1.65	20	
Chromium	40.97	1.92	38.47	3.368	97.7	75	125	41.85	2.13	20	
Lead	45.18	3.85	38.47	8.310	95.8	75	125	49.90	9.95	20	
Selenium	28.31	3.85	38.47		73.6	75	125	28.91	2.10	20	S
Silver	3.580	1.92	3.847	0.01958	92.6	75	125	3.635	1.51	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



November 23, 2016

Michael Patinkin
Resolute Env. & Water Resources Consulting, LLC
1001 Weatherstone Pkwy
Woodstock GA 30188

TEL: (678) 232-9499
FAX: (888) 881-8219

RE: Troutman Sanders Plant Kraft

Dear Michael Patinkin:

Order No: 1611D75

Analytical Environmental Services, Inc. received 65 samples on 11/15/2016 10:15:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Ioana Pacurar
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

1011075 PLANT KRAFT
Work Order: PHASE II

Date: 11/16/16 Page 1 of 3

COMPANY: GEORGIA POWER COMPANY		ADDRESS: 241 RAIFA MCGILL BLVD ATLANTA, GA 30308				ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																															
PHONE: 678-232-9499		FAX: _____				<table border="1"> <tr> <td>BTEX</td><td>GRO</td><td>VOCs</td><td>PAHs</td><td>PCOP</td><td>PCOP METALS</td><td>DRO</td><td>PH</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>MP</td><td>MP</td><td>MP</td><td>MP</td><td>MP</td><td>MP</td><td>MP</td><td>MP</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>											BTEX	GRO	VOCs	PAHs	PCOP	PCOP METALS	DRO	PH									MP	MP	MP	MP	MP	MP	MP	MP							
BTEX	GRO	VOCs	PAHs	PCOP	PCOP METALS	DRO	PH																																								
MP	MP	MP	MP	MP	MP	MP	MP																																								
SAMPLED BY: MICHAEL PATINKIN FOREST HONOR (RESOLVER)		SIGNATURE: <i>[Signature]</i>				PRESERVATION (See codes)																																									
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS	No # of Containers																															
		DATE	TIME				S/M	S/M	S/M	NA	NA	NA	NA																																		
1	SB-1-0-1	11/2/16	0800	X		SO	X	X								5 COOLERS	4																														
2	GW-1-0-1		0800	X		GW	X	X									2																														
3	SB-31-2-1-2		0830	X		SO			X	X	X						6																														
4	SB-31-2-1-2		0830	X		GW			X	X	X						4																														
5	SB-31-1-1-2		0915	X		SO			X	X	X						4																														
6	GW-31-1-1-2		0915	X		GW			X	X	X						4																														
7	SB-4-2-3		1000	X		SO	X	X		X		X					6																														
8	SB-5/12-2-3		1040	X		SO	X	X		X		X	X				7																														
9	GW-5/12		1040	X		GW	X	X		X		X	X				5																														
10	SB-17-0-2		1615	X		SO			X	X	X						6																														
11	GW-17		1615	X		GW			X	X	X						4																														
12	FB-2		1710	X		W			X	X	X	X	X				5																														
13	RB-2		1720	X		W			X	X	X	X	X				5																														
14	SB-10-0-1	11/3/16	1120	X		SO	X	X		X		X					6																														
RELINQUISHED BY:		DATE/TIME:	RECEIVED BY:		DATE/TIME:	PROJECT INFORMATION								RECEIPT																																	
1: MICHAEL PATINKIN		11/13/16	1: <i>[Signature]</i>		11/15/16	PROJECT NAME: TROUTMAN SANDERS PLANT KRAFT								Total # of Containers: 70																																	
2: <i>[Signature]</i>		11/14/16	2: <i>[Signature]</i>		10:15AM	PROJECT #:								Turnaround Time Request																																	
3: <i>[Signature]</i>		1900	3: <i>[Signature]</i>			SITE ADDRESS: 155 CROSSGATE ROAD PORT WENT WORTH, GA								<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other																																	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD:		VIA:		SEND REPORT TO: STEPHEN WILSON (RESOLVER)								STATE PROGRAM (if any): HPA																																	
		OUT 11/13/16		VIA: FEDEX		INVOICE TO: MICHAEL PATINKIN (RESOLVER)								E-mail? _____ Fax? _____																																	
		IN _____		VIA: _____		LET MILET (GEORGIA POWER)								DATA PACKAGE: <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>																																	
		CLIENT FedEx UPS MAIL COURIER		GREYHOUND OTHER _____		QUOTE #: _____ PO#: _____																																									

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.



COMPANY: GEORGIA POWER COMPANY		ADDRESS: 241 RALPH McCALL BLVD ATLANTA, GA 30308				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																	
PHONE: 678.232.9499		FAX: _____				<table border="1"> <tr> <td>STEX 82608</td> <td>GRD 805</td> <td>VOC 82608</td> <td>PAH 8260</td> <td>PCB 82608</td> <td>DRO 805</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										STEX 82608	GRD 805		VOC 82608	PAH 8260	PCB 82608	DRO 805													REMARKS
STEX 82608	GRD 805	VOC 82608	PAH 8260	PCB 82608	DRO 805																														
SAMPLED BY: MICHAEL PATRICKIN FOREST HOWARD (RETRN)		SIGNATURE: _____				PRESERVATION (See codes)										REMARKS																			
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)										REMARKS	No # of Containers																	
		DATE	TIME				S/M +I	S/M +I	S/M +I	NA	NA	NA																							
1	GW-10	11/13/16	1120	X		GW	X	X		X	X							5 COOLERS	4																
2	SB-8-0-1		1330	X		SO	X	X		X	X								6																
3	GW-8		1330	X		GW	X	X		X	X								4																
4	SB-7-1-2		1410	X		SO	X	X		X	X								6																
5	SB-6-1-2		1555	X		SO	X	X		X	X								6																
6	SB-16-5-6		1649	X		SO			X	X	X								6																
7	GW-16-5-6		1649	X		GW			X	X	X								4																
8	FB-3		1720	X		W		X	X	X	X	X							5																
9	RB-3		1730	X		W		X	X	X	X	X							5																
10																																			
11																																			
12																																			
13																																			
14																																			
RELINQUISHED BY: MICHAEL PATRICKIN		DATE/TIME: 11/13/16 1800		RECEIVED BY: Michael Howard		DATE/TIME: 11/14/16 10:15 AM		PROJECT INFORMATION										RECEIPT																	
1: MICHAEL PATRICKIN		2: 11/14/16 900		3: _____		PROJECT NAME: TROUTMAN SANDERS PLANT WAREHOUSE										Total # of Containers: 46																			
2: _____		3: _____		SITE ADDRESS: 155 CROSSWAVE ROAD FORSYTH COUNTY, GA										Turnaround Time Request <input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other _____																					
3: _____		SEND REPORT TO: STEPHEN WILSON (RESOURCES@AES.COM)										STATE PROGRAM (if any): WSRA																							
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT 11/13/16 VIA: FEDEX IN _____ VIA: _____ CLIENT (FedEx) UPS MAIL COURIER GREYHOUND OTHER _____				INVOICE TO: LEA MILLET (GEORGIA POWER)										E-mail? _____ Fax? _____ DATA PACKAGE: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV																			
		QUOTE #: _____ PO#: _____																																	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

161107S Work Order: PLANT KRAFT PHASE II

Date: 11/14/16 Page 3 of 5

COMPANY: GEORGIA POWER COMPANY		ADDRESS: 291 RALPH MCGLIZ BLVD ATLANTA, GA				ANALYSIS REQUESTED						Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																								
PHONE: 678.232.9499		FAX: _____				<table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																															REMARKS	
SAMPLED BY: MICHAEL PATRICKIA FORREST HOWARD (RESOLUTE)		SIGNATURE: <i>[Signature]</i>				PRESERVATION (See codes)																																
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	NA																															
1	SB-51-0-2 SB-51-1-0-2	11/14/16	0800	X		SO	X								5 COOLERS																							
2	SB-51-2-6 SB-51-1-2-6		0802	X		SO	X																															
3	SB-51-2-0-2		0830	X		SO	X																															
4	SB-51-2-2-6		0832	X		SO	X																															
5	SB-51-3-0-2		0900	X		SO	X																															
6	SB-51-3-2-6		0900	X		SO	X																															
7	SB-51-4-0-2		0935	X		SO	X																															
8	SB-51-4-2-6		0937	X		SO	X																															
9	SB-51-4-6-10		0959	X		SO	X																															
10	SB-51-5-0-2		1030	X		SO	X																															
11	SB-51-5-2-6		1032	X		SO	X																															
12	SB-51-5-6-8		1034	X		SO	X																															
13	SB-51-6-0-2		1100	X		SO	X																															
14	SB-51-6-2-6		1102	X		SO	X																															
RELINQUISHED BY:		DATE/TIME:	RECEIVED BY:		DATE/TIME:	PROJECT INFORMATION						RECEIPT																										
1: <i>[Signature]</i>		11/14/16 1908	1: <i>[Signature]</i>		11/14/16 10:57AM	PROJECT NAME: TACUMAN SANDERS PLANT KRAFT						Total # of Containers: 14																										
2: _____			2: _____			PROJECT #: _____						Turnaround Time Request																										
3: _____			3: _____			SITE ADDRESS: 158 CROSS GATE ROAD FORT WENDEWORTH GA						<input checked="" type="checkbox"/> Standard 5 Business Days																										
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD:				SEND REPORT TO: STEPHEN WILSON (R) RESOLUTEENV.COM						<input type="checkbox"/> 2 Business Day Rush																										
		OUT 11/14/16 VIA: FedEx				INVOICE TO: MICHAEL PATRICKIA RESOLUTEENV.COM						<input type="checkbox"/> Next Business Day Rush																										
		IN / / VIA: _____				(IF DIFFERENT FROM ABOVE)						<input type="checkbox"/> Same Day Rush (auth req.)																										
		CLIENT (FedEx) UPS MAIL COURIER				LETA MILLET						<input type="checkbox"/> Other																										
		GREYHOUND OTHER _____				GEORGIA POWER						STATE PROGRAM (if any): HSRA																										
						QUOTE #: _____ PO#: _____						E-mail? _____ Fax? _____																										
												DATA PACKAGE: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> O																										

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

1611D75
Work Order: PLANT REPORT PHASE II

Date: 11/14/16 Page 4 of 5

COMPANY: GEORGIA POWER COMPANY		ADDRESS: 241 RAINBOW MOUNTAIN BLVD ATLANTA, GA 30328				ANALYSIS REQUESTED SOLIDS RECIPIENTS COPPER VOLCS						Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: 678-232-9499		FAX: -				PRESERVATION (See codes)						REMARKS			
SAMPLED BY: MICHAEL PATINKIN FOREST HOWARD (CREW LEAD)		SIGNATURE: <i>[Signature]</i>													
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)						REMARKS	No # of Containers	
		DATE	TIME				H+	NA	WA	S/M	I	O			Other
1	SB-51-6-6-8	11/14/16	1104	X		SO	X							5 COOLERS	1
2	SB-51-7-0-2		1130	X		SO	X								1
3	SB-51-7-2-6		1132	X		SO	X								1
4	SB-51-7-6-9		1134	X		SO	X								1
5	SB-36-5-2-3.5		1350	X		SO		X	X						1
6	GW-36-5		1350	X		GW		X	X						1
7	SB-27-2.4-3.7		1425	X		SO				X					4
8	SB-36-6-2-3.5		1450	X		SO		X	X						1
9	SB-36-6		1450	X		GW		X	X						1
10	SB-36-1-2.5-3.5		1515	X		SO		X	X						1
11	SB-DUP-1			X		SO		X	X						1
12	SB-DUP-3			X		SO		X							1
13	SB-DUP-4			X		SO		X							1
14	SB-DUP-5			X		SO		X							1
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION						RECEIPT	
1: MICHAEL PATINKIN		11/14/16 1900		1: <i>[Signature]</i>		11/14/16 10:15 AM		PROJECT NAME: TROUTMAN SANDERS PLANT REPORT						Total # of Containers: 17	
2:				2:				PROJECT #: -						Turnaround Time Request	
3:				3:				SITE ADDRESS: 155 CROSSCREEK ROAD FORT WENTWORTH, GA						<input checked="" type="checkbox"/> Standard 5 Business Days	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD:				SEND REPORT TO: STEPHEN WILSON (R) RESOLUTION CENTER						<input type="checkbox"/> 2 Business Day Rush	
				OUT 11/14/16		VIA: FEDEX		INVOICE TO: MICHAEL PATINKIN (R) RESOLUTION CENTER						<input type="checkbox"/> Next Business Day Rush	
				IN / /		VIA:		(IF DIFFERENT FROM ABOVE) LEA MILLET (GEORGIA POWER)						<input type="checkbox"/> Same Day Rush (auth req.)	
				CLIENT (FedEx) UPS MAIL COURIER				QUOTE #:						<input type="checkbox"/> Other	
				GREYHOUND OTHER				PO#:						STATE PROGRAM (if any): MSA	
														E-mail? Fax?	
														DATA PACKAGE: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> O	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

1011D75
Work Order: PLANT K1 PHASE II

Date: 11/14/16 Page 5 of 5

COMPANY: GEORGIA POWER COMPANY		ADDRESS: 241 RUSSELL MARSH BLVD ATLANTA, GA 30388				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																			
PHONE: 678.232.9490		FAX: -				<table border="1"> <tr> <td>ROCK METALS</td> <td>PAHs</td> <td>PERM</td> <td>COSE</td> <td>GRO 8015</td> <td>VOCs 8205</td> <td>PAHs 8210</td> <td>DRO 8015</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										ROCK METALS	PAHs		PERM	COSE	GRO 8015	VOCs 8205	PAHs 8210	DRO 8015													REMARKS
ROCK METALS	PAHs	PERM	COSE	GRO 8015	VOCs 8205	PAHs 8210	DRO 8015																														
SAMPLED BY: MICHAEL PATINAKI SOLOST HEWARD		SIGNATURE: <i>[Signature]</i>				PRESERVATION (See codes)																															
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA																	
1	SB-36-2-	11/14/16	1340	X		SO	X	X												5 COOLERS	1																
2	GW-36-2-		1340	X		GW	X	X													1																
3	SB-DUP-2-			X		SO	X	X													1																
4	GW-DUP-2-			X		GW	X	X													1																
5	SB-36-3-2.6-3.6		1615	X		SO	X	X													1																
6	SB-36-4-0-1		1645	X		SO	X	X													1																
7	GW-36-1		1645	X		GW	X	X													1																
8	SB-36-9-0-1		1710	X		SO	X	X													1																
9	RB-4		1800	X		W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5																
10	RB-4		1810	X		W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5																
11	<i>[Large handwritten signature]</i>																																				
12	<i>[Large handwritten signature]</i>																																				
13	<i>[Large handwritten signature]</i>																																				
14	<i>[Large handwritten signature]</i>																																				
RELINQUISHED BY:		DATE/TIME:	RECEIVED BY:		DATE/TIME:	PROJECT INFORMATION										RECEIPT																					
1: MICHAEL PATINAKI		11/14/16 1:00	1: MICHAEL PATINAKI		11/15/16 10:15 AM	PROJECT NAME: TROUTMAN SANDERS PLANT K1017										Total # of Containers 18																					
2:			2:			PROJECT #: -										Turnaround Time Request																					
3:			3:			SITE ADDRESS: 155 CROSSCREEK ROAD PORT WENTWORTH GA										<input checked="" type="checkbox"/> Standard 5 Business Days																					
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT 11/14/16 VIA: FedEx IN / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER				SEND REPORT TO: STEPHEN WILSON @ RESULTECH.COM INVOICE TO: MICHAEL PATINAKI @ RESULTECH.COM (IF DIFFERENT FROM ABOVE) LEA MILLS (GEORGIA POWER)										<input type="checkbox"/> 2 Business Day Rush																					
						QUOTE #: _____ PO#: _____										<input type="checkbox"/> Next Business Day Rush																					
																<input type="checkbox"/> Same Day Rush (auth req.)																					
																<input type="checkbox"/> Other																					
																STATE PROGRAM (if any): 1489																					
																E-mail? _____ Fax? _____																					
																DATA PACKAGE: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> V																					

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

Client: Resolute Env. & Water Resources Consulting, LLC
Project: Troutman Sanders Plant Kraft
Lab ID: 1611D75

Case Narrative

Sample Receiving Non-conformance:

Five trip blanks were provided for each cooler, but not listed on the Chain of Custody. Trip Blanks were analyzed at no cost to the client.

pH Analysis by Method 9045D/9040C:

Samples for pH analysis by Method 9045D/9040C were received and analyzed outside holding time requirement of "immediate or 15 minutes".

DRO Analysis by Method 8015C:

Matrix spike and matrix spike duplicate analyses were not performed with Batch 233098 due to insufficient sample volume.

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compounds Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 on sample 1611D75-010A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-1-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 8:00:00 AM
Lab ID: 1611D75-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B					(SW5035)			
Benzene	BRL	0.70		ug/Kg-dry	233234	1	11/17/2016 23:44	JE
Toluene	BRL	0.70		ug/Kg-dry	233234	1	11/17/2016 23:44	JE
Ethylbenzene	BRL	0.70		ug/Kg-dry	233234	1	11/17/2016 23:44	JE
m,p-Xylene	BRL	0.70		ug/Kg-dry	233234	1	11/17/2016 23:44	JE
o-Xylene	BRL	0.70		ug/Kg-dry	233234	1	11/17/2016 23:44	JE
Surr: 4-Bromofluorobenzene	83.8	70-128		%REC	233234	1	11/17/2016 23:44	JE
GASOLINE RANGE ORGANICS SW8015C					(SW5035)			
TPH (Gasoline Range Organics)	BRL	0.35		mg/Kg-dry	233234	1	11/17/2016 23:44	JE
Surr: a.a.a-trifluorotoluene	108	69.8-134		%REC	233234	1	11/17/2016 23:44	JE
PERCENT MOISTURE D2216								
Percent Moisture	14.5	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-1-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 8:00:00 AM
Lab ID: 1611D75-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B					(SW5030B)			
Benzene	BRL	1.0		ug/L	233054	1	11/17/2016 09:08	JE
Toluene	BRL	1.0		ug/L	233054	1	11/17/2016 09:08	JE
Ethylbenzene	BRL	1.0		ug/L	233054	1	11/17/2016 09:08	JE
m,p-Xylene	BRL	1.0		ug/L	233054	1	11/17/2016 09:08	JE
o-Xylene	BRL	1.0		ug/L	233054	1	11/17/2016 09:08	JE
Surr: 4-Bromofluorobenzene	79.8	66.1-129		%REC	233054	1	11/17/2016 09:08	JE
GASOLINE RANGE ORGANICS SW8015C					(SW5030B)			
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/17/2016 09:08	JE
Surr: a.a.a-trifluorotoluene	101	75.1-120		%REC	233054	1	11/17/2016 09:08	JE

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-31-2-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 8:30:00 AM
Lab ID: 1611D75-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.103		mg/Kg-dry	232973	1	11/16/2016 15:58	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
2-Butanone	BRL	39		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
2-Hexanone	BRL	7.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
4-Methyl-2-pentanone	BRL	7.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Acetone	BRL	79		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Benzene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Bromodichloromethane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Bromoform	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Bromomethane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Carbon disulfide	BRL	7.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Chlorobenzene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Chloroethane	BRL	7.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Chloroform	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Chloromethane	BRL	7.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Cyclohexane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Dibromochloromethane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Ethylbenzene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Freon-113	BRL	7.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Isopropylbenzene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
m,p-Xylene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Methyl acetate	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-31-2-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 8:30:00 AM
Lab ID: 1611D75-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Methylene chloride	BRL	16		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
o-Xylene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Styrene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Tetrachloroethene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Toluene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Trichloroethene	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Vinyl chloride	BRL	7.9		ug/Kg-dry	233202	1	11/18/2016 01:04	MD
Surr: 4-Bromofluorobenzene	100	70-128		%REC	233202	1	11/18/2016 01:04	MD
Surr: Dibromofluoromethane	99.3	78.2-128		%REC	233202	1	11/18/2016 01:04	MD
Surr: Toluene-d8	97.2	76.5-116		%REC	233202	1	11/18/2016 01:04	MD
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Acenaphthylene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
1-Methylnaphthalene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
2-Methylnaphthalene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Acenaphthene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Fluorene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Phenanthrene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Anthracene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Fluoranthene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Pyrene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Benz(a)anthracene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Chrysene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Benzo(b)fluoranthene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Benzo(k)fluoranthene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Benzo(a)pyrene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Dibenz(a,h)anthracene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Benzo(g,h,i)perylene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Indeno(1,2,3-cd)pyrene	BRL	340		ug/Kg-dry	233078	1	11/21/2016 22:36	RF
Surr: 2-Fluorobiphenyl	71	56.7-120		%REC	233078	1	11/21/2016 22:36	RF
Surr: 4-Terphenyl-d14	91.4	60-120		%REC	233078	1	11/21/2016 22:36	RF
Surr: Nitrobenzene-d5	72.4	52.6-120		%REC	233078	1	11/21/2016 22:36	RF
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	4.11		mg/Kg-dry	233240	1	11/21/2016 13:59	IO
Barium	BRL	4.11		mg/Kg-dry	233240	1	11/21/2016 13:59	IO

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-31-2-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 8:30:00 AM
Lab ID: 1611D75-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	2.06		mg/Kg-dry	233240	1	11/21/2016 13:59	IO
Chromium	BRL	2.06		mg/Kg-dry	233240	1	11/21/2016 13:59	IO
Lead	4.58	4.11		mg/Kg-dry	233240	1	11/21/2016 13:59	IO
Selenium	BRL	4.11		mg/Kg-dry	233240	1	11/21/2016 13:59	IO
Silver	BRL	2.06		mg/Kg-dry	233240	1	11/21/2016 13:59	IO
PERCENT MOISTURE D2216								
Percent Moisture	3.21	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

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- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-31-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 8:30:00 AM
Lab ID: 1611D75-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
2-Butanone	BRL	50		ug/L	233243	1	11/18/2016 17:01	NP
2-Hexanone	BRL	10		ug/L	233243	1	11/18/2016 17:01	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233243	1	11/18/2016 17:01	NP
Acetone	BRL	50		ug/L	233243	1	11/18/2016 17:01	NP
Benzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Bromodichloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Bromoform	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Bromomethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Carbon disulfide	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Carbon tetrachloride	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Chlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Chloroethane	BRL	10		ug/L	233243	1	11/18/2016 17:01	NP
Chloroform	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Chloromethane	BRL	10		ug/L	233243	1	11/18/2016 17:01	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Cyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Dibromochloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Dichlorodifluoromethane	BRL	10		ug/L	233243	1	11/18/2016 17:01	NP
Ethylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Freon-113	BRL	10		ug/L	233243	1	11/18/2016 17:01	NP
Isopropylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
m,p-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Methyl acetate	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Methylcyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Methylene chloride	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
o-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-31-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 8:30:00 AM
Lab ID: 1611D75-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Tetrachloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Toluene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Trichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:01	NP
Vinyl chloride	BRL	2.0		ug/L	233243	1	11/18/2016 17:01	NP
Surr: 4-Bromofluorobenzene	88.8	66.1-129		%REC	233243	1	11/18/2016 17:01	NP
Surr: Dibromofluoromethane	101	83.6-123		%REC	233243	1	11/18/2016 17:01	NP
Surr: Toluene-d8	101	81.8-118		%REC	233243	1	11/18/2016 17:01	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 13:49	JR
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 10:59	RF
Surr: Nitrobenzene-d5	66.2	56.9-120		%REC	233025	1	11/22/2016 10:59	RF
Surr: 2-Fluorobiphenyl	65	55.6-120		%REC	233025	1	11/22/2016 10:59	RF
Surr: 4-Terphenyl-d14	89.3	45.7-120		%REC	233025	1	11/22/2016 10:59	RF
METALS, TOTAL SW6010D			(SW3010A)					
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 21:42	IO
Barium	0.0713	0.0200		mg/L	233332	1	11/20/2016 21:42	IO

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-31-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 8:30:00 AM
Lab ID: 1611D75-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 21:42	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 21:42	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 21:42	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 21:42	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 21:42	IO

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-31-1-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 9:15:00 AM
Lab ID: 1611D75-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.104		mg/Kg-dry	232973	1	11/16/2016 16:00	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
2-Butanone	BRL	38		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
2-Hexanone	BRL	7.7		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
4-Methyl-2-pentanone	BRL	7.7		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Acetone	BRL	77		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Benzene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Bromodichloromethane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Bromoform	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Bromomethane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Carbon disulfide	BRL	7.7		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Chlorobenzene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Chloroethane	BRL	7.7		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Chloroform	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Chloromethane	BRL	7.7		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Cyclohexane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Dibromochloromethane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Dichlorodifluoromethane	BRL	7.7		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Ethylbenzene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Freon-113	BRL	7.7		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Isopropylbenzene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
m,p-Xylene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Methyl acetate	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-31-1-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 9:15:00 AM
Lab ID: 1611D75-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Methylene chloride	BRL	15		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
o-Xylene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Styrene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Tetrachloroethene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Toluene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Trichloroethene	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Vinyl chloride	BRL	7.7		ug/Kg-dry	233202	1	11/18/2016 01:29	MD
Surr: 4-Bromofluorobenzene	104	70-128		%REC	233202	1	11/18/2016 01:29	MD
Surr: Dibromofluoromethane	103	78.2-128		%REC	233202	1	11/18/2016 01:29	MD
Surr: Toluene-d8	95.2	76.5-116		%REC	233202	1	11/18/2016 01:29	MD
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Acenaphthylene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
1-Methylnaphthalene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
2-Methylnaphthalene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Acenaphthene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Fluorene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Phenanthrene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Anthracene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Fluoranthene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Pyrene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Benz(a)anthracene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Chrysene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Benzo(b)fluoranthene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Benzo(k)fluoranthene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Benzo(a)pyrene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Dibenz(a,h)anthracene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Benzo(g,h,i)perylene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Indeno(1,2,3-cd)pyrene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:04	RF
Surr: 2-Fluorobiphenyl	71.3	56.7-120		%REC	233078	1	11/21/2016 23:04	RF
Surr: 4-Terphenyl-d14	90.7	60-120		%REC	233078	1	11/21/2016 23:04	RF
Surr: Nitrobenzene-d5	65.9	52.6-120		%REC	233078	1	11/21/2016 23:04	RF
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	4.37		mg/Kg-dry	233240	1	11/21/2016 14:27	IO
Barium	BRL	4.37		mg/Kg-dry	233240	1	11/21/2016 14:27	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-31-1-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 9:15:00 AM
Lab ID: 1611D75-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	2.18		mg/Kg-dry	233240	1	11/21/2016 14:27	IO
Chromium	BRL	2.18		mg/Kg-dry	233240	1	11/21/2016 14:27	IO
Lead	BRL	4.37		mg/Kg-dry	233240	1	11/21/2016 14:27	IO
Selenium	BRL	4.37		mg/Kg-dry	233240	1	11/21/2016 14:27	IO
Silver	BRL	2.18		mg/Kg-dry	233240	1	11/21/2016 14:27	IO
PERCENT MOISTURE D2216								
Percent Moisture	4.47	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	GW-31-1
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/12/2016 9:15:00 AM
Lab ID:	1611D75-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
2-Butanone	BRL	50		ug/L	233243	1	11/18/2016 17:24	NP
2-Hexanone	BRL	10		ug/L	233243	1	11/18/2016 17:24	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233243	1	11/18/2016 17:24	NP
Acetone	BRL	50		ug/L	233243	1	11/18/2016 17:24	NP
Benzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Bromodichloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Bromoform	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Bromomethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Carbon disulfide	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Carbon tetrachloride	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Chlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Chloroethane	BRL	10		ug/L	233243	1	11/18/2016 17:24	NP
Chloroform	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Chloromethane	BRL	10		ug/L	233243	1	11/18/2016 17:24	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Cyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Dibromochloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Dichlorodifluoromethane	BRL	10		ug/L	233243	1	11/18/2016 17:24	NP
Ethylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Freon-113	BRL	10		ug/L	233243	1	11/18/2016 17:24	NP
Isopropylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
m,p-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Methyl acetate	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Methylcyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Methylene chloride	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
o-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-31-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 9:15:00 AM
Lab ID: 1611D75-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Tetrachloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Toluene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Trichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:24	NP
Vinyl chloride	BRL	2.0		ug/L	233243	1	11/18/2016 17:24	NP
Surr: 4-Bromofluorobenzene	90.1	66.1-129		%REC	233243	1	11/18/2016 17:24	NP
Surr: Dibromofluoromethane	103	83.6-123		%REC	233243	1	11/18/2016 17:24	NP
Surr: Toluene-d8	101	81.8-118		%REC	233243	1	11/18/2016 17:24	NP
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 13:41	JR
POLYAROMATIC HYDROCARBONS SW8270D (SW3510C)								
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 11:28	RF
Surr: Nitrobenzene-d5	65.1	56.9-120		%REC	233025	1	11/22/2016 11:28	RF
Surr: 2-Fluorobiphenyl	63.4	55.6-120		%REC	233025	1	11/22/2016 11:28	RF
Surr: 4-Terphenyl-d14	87.5	45.7-120		%REC	233025	1	11/22/2016 11:28	RF
METALS, TOTAL SW6010D (SW3010A)								
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 21:46	IO
Barium	0.0492	0.0200		mg/L	233332	1	11/20/2016 21:46	IO

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-31-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 9:15:00 AM
Lab ID: 1611D75-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL								
SW6010D								
					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 21:46	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 21:46	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 21:46	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 21:46	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 21:46	IO

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-4-2-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 10:00:00 AM
Lab ID: 1611D75-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.77		ug/Kg-dry	233234	1	11/18/2016 00:13	JE
Toluene	BRL	0.77		ug/Kg-dry	233234	1	11/18/2016 00:13	JE
Ethylbenzene	BRL	0.77		ug/Kg-dry	233234	1	11/18/2016 00:13	JE
m,p-Xylene	BRL	0.77		ug/Kg-dry	233234	1	11/18/2016 00:13	JE
o-Xylene	BRL	0.77		ug/Kg-dry	233234	1	11/18/2016 00:13	JE
Surr: 4-Bromofluorobenzene	75.3	70-128		%REC	233234	1	11/18/2016 00:13	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Acenaphthylene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
1-Methylnaphthalene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
2-Methylnaphthalene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Acenaphthene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Fluorene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Phenanthrene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Anthracene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Fluoranthene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Pyrene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Benz(a)anthracene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Chrysene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Benzo(b)fluoranthene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Benzo(k)fluoranthene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Benzo(a)pyrene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Dibenz(a,h)anthracene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Benzo(g,h,i)perylene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Indeno(1,2,3-cd)pyrene	BRL	350		ug/Kg-dry	233078	1	11/21/2016 23:33	RF
Surr: 2-Fluorobiphenyl	69.3	56.7-120		%REC	233078	1	11/21/2016 23:33	RF
Surr: 4-Terphenyl-d14	89.5	60-120		%REC	233078	1	11/21/2016 23:33	RF
Surr: Nitrobenzene-d5	68.8	52.6-120		%REC	233078	1	11/21/2016 23:33	RF
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.39		mg/Kg-dry	233234	1	11/18/2016 00:13	JE
Surr: a.a.a-trifluorotoluene	110	69.8-134		%REC	233234	1	11/18/2016 00:13	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.1		mg/Kg-dry	232982	1	11/17/2016 11:23	RF
Surr: Dioctylphthalate	82.7	50.1-122		%REC	232982	1	11/17/2016 11:23	RF
PERCENT MOISTURE D2216								
Percent Moisture	5.46	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-5/12-2-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 10:40:00 AM
Lab ID: 1611D75-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.83		ug/Kg-dry	233234	1	11/18/2016 23:51	JE
Toluene	BRL	0.83		ug/Kg-dry	233234	1	11/18/2016 23:51	JE
Ethylbenzene	BRL	0.83		ug/Kg-dry	233234	1	11/18/2016 23:51	JE
m,p-Xylene	BRL	0.83		ug/Kg-dry	233234	1	11/18/2016 23:51	JE
o-Xylene	BRL	0.83		ug/Kg-dry	233234	1	11/18/2016 23:51	JE
Surr: 4-Bromofluorobenzene	68.1	70-128	S	%REC	233234	1	11/18/2016 23:51	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Acenaphthylene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
1-Methylnaphthalene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
2-Methylnaphthalene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Acenaphthene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Fluorene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Phenanthrene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Anthracene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Pyrene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Benz(a)anthracene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Chrysene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Benzo(a)pyrene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	233172	1	11/18/2016 20:10	RF
Surr: 2-Fluorobiphenyl	75.3	56.7-120		%REC	233172	1	11/18/2016 20:10	RF
Surr: 4-Terphenyl-d14	79.9	60-120		%REC	233172	1	11/18/2016 20:10	RF
Surr: Nitrobenzene-d5	78.3	52.6-120		%REC	233172	1	11/18/2016 20:10	RF
Laboratory Hydrogen Ion (pH) SW9045D		(SW9045D)						
pH	6.21	0.01	H	pH Units	233463	1	11/22/2016 10:45	AD
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.39		mg/Kg-dry	233234	1	11/18/2016 00:41	JE
Surr: a.a.a-trifluorotoluene	116	69.8-134		%REC	233234	1	11/18/2016 00:41	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	232982	1	11/17/2016 11:46	RF
Surr: Dioctylphthalate	75.3	50.1-122		%REC	232982	1	11/17/2016 11:46	RF

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- E Estimated (value above quantitation range)
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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-5/12-2-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 10:40:00 AM
Lab ID: 1611D75-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
PERCENT MOISTURE D2216								
Percent Moisture	15.0	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-5/12
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 10:40:00 AM
Lab ID: 1611D75-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5030B)						
Benzene	BRL	1.0		ug/L	233054	1	11/17/2016 09:38	JE
Toluene	BRL	1.0		ug/L	233054	1	11/17/2016 09:38	JE
Ethylbenzene	BRL	1.0		ug/L	233054	1	11/17/2016 09:38	JE
m,p-Xylene	BRL	1.0		ug/L	233054	1	11/17/2016 09:38	JE
o-Xylene	BRL	1.0		ug/L	233054	1	11/17/2016 09:38	JE
Surr: 4-Bromofluorobenzene	78.1	66.1-129		%REC	233054	1	11/17/2016 09:38	JE
Laboratory Hydrogen Ion (pH) SW9040C								
pH	6.14	0.01	H	pH Units	R330397	1	11/21/2016 16:45	AD
GASOLINE RANGE ORGANICS SW8015C		(SW5030B)						
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/17/2016 09:38	JE
Surr: a.a.a-trifluorotoluene	107	75.1-120		%REC	233054	1	11/17/2016 09:38	JE
DIESEL RANGE ORGANICS SW8015C		(SW3510C)						
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/17/2016 18:24	RF
Surr: Dioctylphthalate	34	47-119	S	%REC	233098	1	11/17/2016 18:24	RF
POLYAROMATIC HYDROCARBONS SW8270D		(SW3510C)						
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 12:54	RF
Surr: Nitrobenzene-d5	36.3	56.9-120	S	%REC	233025	1	11/22/2016 12:54	RF
Surr: 2-Fluorobiphenyl	40.3	55.6-120	S	%REC	233025	1	11/22/2016 12:54	RF
Surr: 4-Terphenyl-d14	61.1	45.7-120		%REC	233025	1	11/22/2016 12:54	RF

Qualifiers:

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-17-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 4:15:00 PM
Lab ID: 1611D75-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.101		mg/Kg-dry	232973	1	11/16/2016 15:34	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
2-Butanone	BRL	37		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
2-Hexanone	BRL	7.4		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Acetone	BRL	74		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Benzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Bromodichloromethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Bromoform	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Bromomethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Carbon disulfide	BRL	7.4		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Chlorobenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Chloroethane	BRL	7.4		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Chloroform	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Chloromethane	BRL	7.4		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Cyclohexane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Dibromochloromethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Ethylbenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Freon-113	BRL	7.4		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Isopropylbenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
m,p-Xylene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Methyl acetate	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD

Qualifiers:

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
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Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-17-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 4:15:00 PM
Lab ID: 1611D75-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Methylcyclohexane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Methylene chloride	BRL	15		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
o-Xylene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Styrene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Tetrachloroethene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Toluene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Trichloroethene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Vinyl chloride	BRL	7.4		ug/Kg-dry	233202	1	11/18/2016 01:54	MD
Surr: 4-Bromofluorobenzene	65.9	70-128	S	%REC	233202	1	11/18/2016 01:54	MD
Surr: Dibromofluoromethane	117	78.2-128		%REC	233202	1	11/18/2016 01:54	MD
Surr: Toluene-d8	82.1	76.5-116		%REC	233202	1	11/18/2016 01:54	MD
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Naphthalene	600	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Acenaphthylene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
1-Methylnaphthalene	980	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
2-Methylnaphthalene	920	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Acenaphthene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Fluorene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Phenanthrene	1100	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Anthracene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Fluoranthene	890	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Pyrene	760	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Benz(a)anthracene	440	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Chrysene	790	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Benzo(b)fluoranthene	980	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Benzo(k)fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Benzo(a)pyrene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Dibenz(a,h)anthracene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Benzo(g,h,i)perylene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Indeno(1,2,3-cd)pyrene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 00:02	RF
Surr: 2-Fluorobiphenyl	69.8	56.7-120		%REC	233172	1	11/22/2016 00:02	RF
Surr: 4-Terphenyl-d14	89.1	60-120		%REC	233172	1	11/22/2016 00:02	RF
Surr: Nitrobenzene-d5	70.5	52.6-120		%REC	233172	1	11/22/2016 00:02	RF
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	10.0	4.34		mg/Kg-dry	233240	1	11/21/2016 14:31	IO
Barium	32.1	4.34		mg/Kg-dry	233240	1	11/21/2016 14:31	IO

Qualifiers:

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
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Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-17-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 4:15:00 PM
Lab ID: 1611D75-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	2.17		mg/Kg-dry	233240	1	11/21/2016 14:31	IO
Chromium	7.49	2.17		mg/Kg-dry	233240	1	11/21/2016 14:31	IO
Lead	10.8	4.34		mg/Kg-dry	233240	1	11/21/2016 14:31	IO
Selenium	BRL	4.34		mg/Kg-dry	233240	1	11/21/2016 14:31	IO
Silver	BRL	2.17		mg/Kg-dry	233240	1	11/21/2016 14:31	IO
PERCENT MOISTURE D2216								
Percent Moisture	4.71	0		wt%	R330395	1	11/21/2016 09:00	BD

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Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-17
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 4:15:00 PM
Lab ID: 1611D75-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
2-Butanone	BRL	50		ug/L	233243	1	11/18/2016 17:47	NP
2-Hexanone	BRL	10		ug/L	233243	1	11/18/2016 17:47	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233243	1	11/18/2016 17:47	NP
Acetone	BRL	50		ug/L	233243	1	11/18/2016 17:47	NP
Benzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Bromodichloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Bromoform	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Bromomethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Carbon disulfide	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Carbon tetrachloride	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Chlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Chloroethane	BRL	10		ug/L	233243	1	11/18/2016 17:47	NP
Chloroform	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Chloromethane	BRL	10		ug/L	233243	1	11/18/2016 17:47	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Cyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Dibromochloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Dichlorodifluoromethane	BRL	10		ug/L	233243	1	11/18/2016 17:47	NP
Ethylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Freon-113	BRL	10		ug/L	233243	1	11/18/2016 17:47	NP
Isopropylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
m,p-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Methyl acetate	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Methylcyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Methylene chloride	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
o-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP

Qualifiers:

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- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-17
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 4:15:00 PM
Lab ID: 1611D75-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Tetrachloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Toluene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Trichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233243	1	11/18/2016 17:47	NP
Vinyl chloride	BRL	2.0		ug/L	233243	1	11/18/2016 17:47	NP
Surr: 4-Bromofluorobenzene	90.8	66.1-129		%REC	233243	1	11/18/2016 17:47	NP
Surr: Dibromofluoromethane	102	83.6-123		%REC	233243	1	11/18/2016 17:47	NP
Surr: Toluene-d8	101	81.8-118		%REC	233243	1	11/18/2016 17:47	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 13:51	JR
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 13:23	RF
Surr: Nitrobenzene-d5	63.8	56.9-120		%REC	233025	1	11/22/2016 13:23	RF
Surr: 2-Fluorobiphenyl	63.1	55.6-120		%REC	233025	1	11/22/2016 13:23	RF
Surr: 4-Terphenyl-d14	79.3	45.7-120		%REC	233025	1	11/22/2016 13:23	RF
METALS, TOTAL SW6010D			(SW3010A)					
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 21:49	IO
Barium	0.0750	0.0200		mg/L	233332	1	11/20/2016 21:49	IO

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-17
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 4:15:00 PM
Lab ID: 1611D75-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 21:49	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 21:49	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 21:49	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 21:49	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 21:49	IO

Qualifiers:

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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	FB-2
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/12/2016 5:10:00 PM
Lab ID:	1611D75-012	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
2-Butanone	BRL	50		ug/L	233243	1	11/18/2016 18:10	NP
2-Hexanone	BRL	10		ug/L	233243	1	11/18/2016 18:10	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233243	1	11/18/2016 18:10	NP
Acetone	BRL	50		ug/L	233243	1	11/18/2016 18:10	NP
Benzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Bromodichloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Bromoform	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Bromomethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Carbon disulfide	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Carbon tetrachloride	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Chlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Chloroethane	BRL	10		ug/L	233243	1	11/18/2016 18:10	NP
Chloroform	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Chloromethane	BRL	10		ug/L	233243	1	11/18/2016 18:10	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Cyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Dibromochloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Dichlorodifluoromethane	BRL	10		ug/L	233243	1	11/18/2016 18:10	NP
Ethylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Freon-113	BRL	10		ug/L	233243	1	11/18/2016 18:10	NP
Isopropylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
m,p-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Methyl acetate	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Methylcyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Methylene chloride	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
o-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 5:10:00 PM
Lab ID: 1611D75-012	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Tetrachloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Toluene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Trichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:10	NP
Vinyl chloride	BRL	2.0		ug/L	233243	1	11/18/2016 18:10	NP
Surr: 4-Bromofluorobenzene	90.2	66.1-129		%REC	233243	1	11/18/2016 18:10	NP
Surr: Dibromofluoromethane	103	83.6-123		%REC	233243	1	11/18/2016 18:10	NP
Surr: Toluene-d8	102	81.8-118		%REC	233243	1	11/18/2016 18:10	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 13:57	JR
GASOLINE RANGE ORGANICS SW8015C			(SW5030B)					
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/17/2016 10:07	JE
Surr: a.a.a-trifluorotoluene	107	75.1-120		%REC	233054	1	11/17/2016 10:07	JE
DIESEL RANGE ORGANICS SW8015C			(SW3510C)					
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/17/2016 18:47	RF
Surr: Dioctylphthalate	58.3	47-119		%REC	233098	1	11/17/2016 18:47	RF
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 5:10:00 PM
Lab ID: 1611D75-012	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 13:51	RF
Surr: Nitrobenzene-d5	72.6	56.9-120		%REC	233025	1	11/22/2016 13:51	RF
Surr: 2-Fluorobiphenyl	64.3	55.6-120		%REC	233025	1	11/22/2016 13:51	RF
Surr: 4-Terphenyl-d14	88.6	45.7-120		%REC	233025	1	11/22/2016 13:51	RF
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:00	IO
Barium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:00	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:00	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 22:00	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:00	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:00	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:00	IO

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 5:20:00 PM
Lab ID: 1611D75-013	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
2-Butanone	BRL	50		ug/L	233243	1	11/18/2016 18:34	NP
2-Hexanone	BRL	10		ug/L	233243	1	11/18/2016 18:34	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233243	1	11/18/2016 18:34	NP
Acetone	BRL	50		ug/L	233243	1	11/18/2016 18:34	NP
Benzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Bromodichloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Bromoform	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Bromomethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Carbon disulfide	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Carbon tetrachloride	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Chlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Chloroethane	BRL	10		ug/L	233243	1	11/18/2016 18:34	NP
Chloroform	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Chloromethane	BRL	10		ug/L	233243	1	11/18/2016 18:34	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Cyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Dibromochloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Dichlorodifluoromethane	BRL	10		ug/L	233243	1	11/18/2016 18:34	NP
Ethylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Freon-113	BRL	10		ug/L	233243	1	11/18/2016 18:34	NP
Isopropylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
m,p-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Methyl acetate	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Methylcyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Methylene chloride	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
o-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 5:20:00 PM
Lab ID: 1611D75-013	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Tetrachloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Toluene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Trichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:34	NP
Vinyl chloride	BRL	2.0		ug/L	233243	1	11/18/2016 18:34	NP
Surr: 4-Bromofluorobenzene	89.5	66.1-129		%REC	233243	1	11/18/2016 18:34	NP
Surr: Dibromofluoromethane	101	83.6-123		%REC	233243	1	11/18/2016 18:34	NP
Surr: Toluene-d8	99.6	81.8-118		%REC	233243	1	11/18/2016 18:34	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 13:59	JR
GASOLINE RANGE ORGANICS SW8015C			(SW5030B)					
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/17/2016 10:35	JE
Surr: a.a.a-trifluorotoluene	106	75.1-120		%REC	233054	1	11/17/2016 10:35	JE
DIESEL RANGE ORGANICS SW8015C			(SW3510C)					
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/17/2016 19:10	RF
Surr: Dioctylphthalate	58	47-119		%REC	233098	1	11/17/2016 19:10	RF
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF

Qualifiers:

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/12/2016 5:20:00 PM
Lab ID: 1611D75-013	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 14:19	RF
Surr: Nitrobenzene-d5	68.9	56.9-120		%REC	233025	1	11/22/2016 14:19	RF
Surr: 2-Fluorobiphenyl	68.5	55.6-120		%REC	233025	1	11/22/2016 14:19	RF
Surr: 4-Terphenyl-d14	83.2	45.7-120		%REC	233025	1	11/22/2016 14:19	RF
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:03	IO
Barium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:03	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:03	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 22:03	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:03	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:03	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:03	IO

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-10-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 11:20:00 AM
Lab ID: 1611D75-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.92		ug/Kg-dry	233234	1	11/18/2016 01:11	JE
Toluene	BRL	0.92		ug/Kg-dry	233234	1	11/18/2016 01:11	JE
Ethylbenzene	BRL	0.92		ug/Kg-dry	233234	1	11/18/2016 01:11	JE
m,p-Xylene	BRL	0.92		ug/Kg-dry	233234	1	11/18/2016 01:11	JE
o-Xylene	BRL	0.92		ug/Kg-dry	233234	1	11/18/2016 01:11	JE
Surr: 4-Bromofluorobenzene	74.1	70-128		%REC	233234	1	11/18/2016 01:11	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Acenaphthylene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
1-Methylnaphthalene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
2-Methylnaphthalene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Acenaphthene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Fluorene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Phenanthrene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Anthracene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Fluoranthene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Pyrene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Benz(a)anthracene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Chrysene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Benzo(b)fluoranthene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Benzo(k)fluoranthene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Benzo(a)pyrene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Dibenz(a,h)anthracene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Benzo(g,h,i)perylene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Indeno(1,2,3-cd)pyrene	BRL	420		ug/Kg-dry	233172	1	11/22/2016 00:30	RF
Surr: 2-Fluorobiphenyl	63.2	56.7-120		%REC	233172	1	11/22/2016 00:30	RF
Surr: 4-Terphenyl-d14	76.7	60-120		%REC	233172	1	11/22/2016 00:30	RF
Surr: Nitrobenzene-d5	65.4	52.6-120		%REC	233172	1	11/22/2016 00:30	RF
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.46		mg/Kg-dry	233234	1	11/18/2016 01:11	JE
Surr: a.a.a-trifluorotoluene	104	69.8-134		%REC	233234	1	11/18/2016 01:11	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	12	8.6		mg/Kg-dry	232982	1	11/17/2016 14:34	RF
Surr: Dioctylphthalate	77.8	50.1-122		%REC	232982	1	11/17/2016 14:34	RF
PERCENT MOISTURE D2216								
Percent Moisture	21.7	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-10
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 11:20:00 AM
Lab ID: 1611D75-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5030B)						
Benzene	BRL	1.0		ug/L	233054	1	11/17/2016 11:04	JE
Toluene	BRL	1.0		ug/L	233054	1	11/17/2016 11:04	JE
Ethylbenzene	BRL	1.0		ug/L	233054	1	11/17/2016 11:04	JE
m,p-Xylene	BRL	1.0		ug/L	233054	1	11/17/2016 11:04	JE
o-Xylene	BRL	1.0		ug/L	233054	1	11/17/2016 11:04	JE
Surr: 4-Bromofluorobenzene	77	66.1-129		%REC	233054	1	11/17/2016 11:04	JE
GASOLINE RANGE ORGANICS SW8015C		(SW5030B)						
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/17/2016 11:04	JE
Surr: a.a.a-trifluorotoluene	108	75.1-120		%REC	233054	1	11/17/2016 11:04	JE
DIESEL RANGE ORGANICS SW8015C		(SW3510C)						
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/17/2016 19:34	RF
Surr: Dioctylphthalate	64.9	47-119		%REC	233098	1	11/17/2016 19:34	RF
POLYAROMATIC HYDROCARBONS SW8270D		(SW3510C)						
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 14:48	RF
Surr: Nitrobenzene-d5	59	56.9-120		%REC	233025	1	11/22/2016 14:48	RF
Surr: 2-Fluorobiphenyl	62	55.6-120		%REC	233025	1	11/22/2016 14:48	RF
Surr: 4-Terphenyl-d14	82.4	45.7-120		%REC	233025	1	11/22/2016 14:48	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-8-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 1:30:00 PM
Lab ID: 1611D75-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.96		ug/Kg-dry	233234	1	11/18/2016 01:40	JE
Toluene	BRL	0.96		ug/Kg-dry	233234	1	11/18/2016 01:40	JE
Ethylbenzene	BRL	0.96		ug/Kg-dry	233234	1	11/18/2016 01:40	JE
m,p-Xylene	BRL	0.96		ug/Kg-dry	233234	1	11/18/2016 01:40	JE
o-Xylene	BRL	0.96		ug/Kg-dry	233234	1	11/18/2016 01:40	JE
Surr: 4-Bromofluorobenzene	83.1	70-128		%REC	233234	1	11/18/2016 01:40	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Acenaphthylene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
1-Methylnaphthalene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
2-Methylnaphthalene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Acenaphthene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Fluorene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Phenanthrene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Anthracene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Pyrene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Benz(a)anthracene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Chrysene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Benzo(a)pyrene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 00:58	RF
Surr: 2-Fluorobiphenyl	46.2	56.7-120	S	%REC	233172	1	11/22/2016 00:58	RF
Surr: 4-Terphenyl-d14	57.9	60-120	S	%REC	233172	1	11/22/2016 00:58	RF
Surr: Nitrobenzene-d5	42.9	52.6-120	S	%REC	233172	1	11/22/2016 00:58	RF
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.48		mg/Kg-dry	233234	1	11/18/2016 01:40	JE
Surr: a.a.a-trifluorotoluene	115	69.8-134		%REC	233234	1	11/18/2016 01:40	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	1300	80		mg/Kg-dry	232982	10	11/17/2016 14:57	RF
Surr: Dioctylphthalate	69.1	50.1-122		%REC	232982	1	11/17/2016 13:21	RF
PERCENT MOISTURE D2216								
Percent Moisture	16.0	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-8
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 1:30:00 PM
Lab ID: 1611D75-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5030B)						
Benzene	BRL	1.0		ug/L	233054	1	11/17/2016 11:33	JE
Toluene	BRL	1.0		ug/L	233054	1	11/17/2016 11:33	JE
Ethylbenzene	BRL	1.0		ug/L	233054	1	11/17/2016 11:33	JE
m,p-Xylene	BRL	1.0		ug/L	233054	1	11/17/2016 11:33	JE
o-Xylene	BRL	1.0		ug/L	233054	1	11/17/2016 11:33	JE
Surr: 4-Bromofluorobenzene	79.8	66.1-129		%REC	233054	1	11/17/2016 11:33	JE
GASOLINE RANGE ORGANICS SW8015C		(SW5030B)						
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/17/2016 11:33	JE
Surr: a.a.a-trifluorotoluene	104	75.1-120		%REC	233054	1	11/17/2016 11:33	JE
DIESEL RANGE ORGANICS SW8015C		(SW3510C)						
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/17/2016 19:57	RF
Surr: Dioctylphthalate	66.2	47-119		%REC	233098	1	11/17/2016 19:57	RF
POLYAROMATIC HYDROCARBONS SW8270D		(SW3510C)						
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 15:16	RF
Surr: Nitrobenzene-d5	58.9	56.9-120		%REC	233025	1	11/22/2016 15:16	RF
Surr: 2-Fluorobiphenyl	62	55.6-120		%REC	233025	1	11/22/2016 15:16	RF
Surr: 4-Terphenyl-d14	82.4	45.7-120		%REC	233025	1	11/22/2016 15:16	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-7-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 2:10:00 PM
Lab ID: 1611D75-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.78		ug/Kg-dry	233234	1	11/18/2016 02:09	JE
Toluene	BRL	0.78		ug/Kg-dry	233234	1	11/18/2016 02:09	JE
Ethylbenzene	BRL	0.78		ug/Kg-dry	233234	1	11/18/2016 02:09	JE
m,p-Xylene	BRL	0.78		ug/Kg-dry	233234	1	11/18/2016 02:09	JE
o-Xylene	BRL	0.78		ug/Kg-dry	233234	1	11/18/2016 02:09	JE
Surr: 4-Bromofluorobenzene	79.4	70-128		%REC	233234	1	11/18/2016 02:09	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Acenaphthylene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
1-Methylnaphthalene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
2-Methylnaphthalene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Acenaphthene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Fluorene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Phenanthrene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Anthracene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Pyrene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Benz(a)anthracene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Chrysene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Benzo(b)fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Benzo(k)fluoranthene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Benzo(a)pyrene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Dibenz(a,h)anthracene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Benzo(g,h,i)perylene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Indeno(1,2,3-cd)pyrene	BRL	350		ug/Kg-dry	233172	1	11/22/2016 01:25	RF
Surr: 2-Fluorobiphenyl	67.3	56.7-120		%REC	233172	1	11/22/2016 01:25	RF
Surr: 4-Terphenyl-d14	84.9	60-120		%REC	233172	1	11/22/2016 01:25	RF
Surr: Nitrobenzene-d5	66.6	52.6-120		%REC	233172	1	11/22/2016 01:25	RF
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.39		mg/Kg-dry	233234	1	11/18/2016 02:09	JE
Surr: a.a.a-trifluorotoluene	110	69.8-134		%REC	233234	1	11/18/2016 02:09	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.1		mg/Kg-dry	232982	1	11/17/2016 12:11	RF
Surr: Dioctylphthalate	80.6	50.1-122		%REC	232982	1	11/17/2016 12:11	RF
PERCENT MOISTURE D2216								
Percent Moisture	5.24	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-6-1-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 3:55:00 PM
Lab ID: 1611D75-019	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILE ORGANICS SW8260B		(SW5035)						
Benzene	BRL	0.76		ug/Kg-dry	233234	1	11/18/2016 02:37	JE
Toluene	BRL	0.76		ug/Kg-dry	233234	1	11/18/2016 02:37	JE
Ethylbenzene	BRL	0.76		ug/Kg-dry	233234	1	11/18/2016 02:37	JE
m,p-Xylene	BRL	0.76		ug/Kg-dry	233234	1	11/18/2016 02:37	JE
o-Xylene	BRL	0.76		ug/Kg-dry	233234	1	11/18/2016 02:37	JE
Surr: 4-Bromofluorobenzene	74.7	70-128		%REC	233234	1	11/18/2016 02:37	JE
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Naphthalene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Acenaphthylene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
1-Methylnaphthalene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
2-Methylnaphthalene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Acenaphthene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Fluorene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Phenanthrene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Anthracene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Fluoranthene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Pyrene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Benz(a)anthracene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Chrysene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Benzo(b)fluoranthene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Benzo(k)fluoranthene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Benzo(a)pyrene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Dibenz(a,h)anthracene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Benzo(g,h,i)perylene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Indeno(1,2,3-cd)pyrene	BRL	400		ug/Kg-dry	233172	1	11/22/2016 01:54	RF
Surr: 2-Fluorobiphenyl	68.6	56.7-120		%REC	233172	1	11/22/2016 01:54	RF
Surr: 4-Terphenyl-d14	87.9	60-120		%REC	233172	1	11/22/2016 01:54	RF
Surr: Nitrobenzene-d5	67.8	52.6-120		%REC	233172	1	11/22/2016 01:54	RF
GASOLINE RANGE ORGANICS SW8015C		(SW5035)						
TPH (Gasoline Range Organics)	BRL	0.38		mg/Kg-dry	233234	1	11/18/2016 02:37	JE
Surr: a.a.a-trifluorotoluene	114	69.8-134		%REC	233234	1	11/18/2016 02:37	JE
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.1		mg/Kg-dry	232982	1	11/17/2016 14:07	RF
Surr: Dioctylphthalate	82.8	50.1-122		%REC	232982	1	11/17/2016 14:07	RF
PERCENT MOISTURE D2216								
Percent Moisture	17.7	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
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Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-16-5-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 4:45:00 PM
Lab ID: 1611D75-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.116		mg/Kg-dry	232973	1	11/16/2016 16:02	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
2-Butanone	BRL	37		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
2-Hexanone	BRL	7.3		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Acetone	BRL	73		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Benzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Bromodichloromethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Bromoform	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Bromomethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Carbon disulfide	BRL	7.3		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Chlorobenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Chloroethane	BRL	7.3		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Chloroform	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Chloromethane	BRL	7.3		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Cyclohexane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Dibromochloromethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Ethylbenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Freon-113	BRL	7.3		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Isopropylbenzene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
m,p-Xylene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Methyl acetate	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD

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Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-16-5-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 4:45:00 PM
Lab ID: 1611D75-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Methylene chloride	BRL	15		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
o-Xylene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Styrene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Tetrachloroethene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Toluene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Trichloroethene	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Vinyl chloride	BRL	7.3		ug/Kg-dry	233202	1	11/18/2016 02:19	MD
Surr: 4-Bromofluorobenzene	95.5	70-128		%REC	233202	1	11/18/2016 02:19	MD
Surr: Dibromofluoromethane	98.7	78.2-128		%REC	233202	1	11/18/2016 02:19	MD
Surr: Toluene-d8	98.6	76.5-116		%REC	233202	1	11/18/2016 02:19	MD
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Acenaphthylene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
1-Methylnaphthalene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
2-Methylnaphthalene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Acenaphthene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Fluorene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Phenanthrene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Anthracene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Pyrene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Benz(a)anthracene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Chrysene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Benzo(a)pyrene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	233172	1	11/22/2016 10:30	RF
Surr: 2-Fluorobiphenyl	68.9	56.7-120		%REC	233172	1	11/22/2016 10:30	RF
Surr: 4-Terphenyl-d14	91.9	60-120		%REC	233172	1	11/22/2016 10:30	RF
Surr: Nitrobenzene-d5	70.2	52.6-120		%REC	233172	1	11/22/2016 10:30	RF
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	3.51		mg/Kg-dry	233240	1	11/21/2016 14:35	IO
Barium	11.3	3.51		mg/Kg-dry	233240	1	11/21/2016 14:35	IO

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- NC Not confirmed
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- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-16-5-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 4:45:00 PM
Lab ID: 1611D75-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3050B)			
Cadmium	BRL	1.76		mg/Kg-dry	233240	1	11/21/2016 14:35	IO
Chromium	4.59	1.76		mg/Kg-dry	233240	1	11/21/2016 14:35	IO
Lead	BRL	3.51		mg/Kg-dry	233240	1	11/21/2016 14:35	IO
Selenium	BRL	3.51		mg/Kg-dry	233240	1	11/21/2016 14:35	IO
Silver	BRL	1.76		mg/Kg-dry	233240	1	11/21/2016 14:35	IO
PERCENT MOISTURE D2216								
Percent Moisture	14.8	0		wt%	R330395	1	11/21/2016 09:00	BD

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Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-16-5-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 4:45:00 PM
Lab ID: 1611D75-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
2-Butanone	BRL	50		ug/L	233243	1	11/18/2016 18:58	NP
2-Hexanone	BRL	10		ug/L	233243	1	11/18/2016 18:58	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233243	1	11/18/2016 18:58	NP
Acetone	BRL	50		ug/L	233243	1	11/18/2016 18:58	NP
Benzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Bromodichloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Bromoform	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Bromomethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Carbon disulfide	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Carbon tetrachloride	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Chlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Chloroethane	BRL	10		ug/L	233243	1	11/18/2016 18:58	NP
Chloroform	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Chloromethane	BRL	10		ug/L	233243	1	11/18/2016 18:58	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Cyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Dibromochloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Dichlorodifluoromethane	BRL	10		ug/L	233243	1	11/18/2016 18:58	NP
Ethylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Freon-113	BRL	10		ug/L	233243	1	11/18/2016 18:58	NP
Isopropylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
m,p-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Methyl acetate	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Methylcyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Methylene chloride	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
o-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP

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Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-16-5-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 4:45:00 PM
Lab ID: 1611D75-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Tetrachloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Toluene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Trichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233243	1	11/18/2016 18:58	NP
Vinyl chloride	BRL	2.0		ug/L	233243	1	11/18/2016 18:58	NP
Surr: 4-Bromofluorobenzene	89.4	66.1-129		%REC	233243	1	11/18/2016 18:58	NP
Surr: Dibromofluoromethane	102	83.6-123		%REC	233243	1	11/18/2016 18:58	NP
Surr: Toluene-d8	101	81.8-118		%REC	233243	1	11/18/2016 18:58	NP
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 14:01	JR
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Acenaphthene	33	10		ug/L	233025	1	11/22/2016 15:46	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 15:46	RF
Surr: Nitrobenzene-d5	61.5	56.9-120		%REC	233025	1	11/22/2016 15:46	RF
Surr: 2-Fluorobiphenyl	66.2	55.6-120		%REC	233025	1	11/22/2016 15:46	RF
Surr: 4-Terphenyl-d14	79.2	45.7-120		%REC	233025	1	11/22/2016 15:46	RF
METALS, TOTAL SW6010D			(SW3010A)					
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:06	IO
Barium	0.320	0.0200		mg/L	233332	1	11/20/2016 22:06	IO

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- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-16-5-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 4:45:00 PM
Lab ID: 1611D75-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D					(SW3010A)			
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:06	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 22:06	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:06	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:06	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:06	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	FB-3
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/13/2016 5:20:00 PM
Lab ID:	1611D75-022	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,1-Dichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,1-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,2-Dibromoethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,2-Dichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,2-Dichloropropane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
2-Butanone	BRL	50		ug/L	233054	1	11/21/2016 13:46	BN
2-Hexanone	BRL	10		ug/L	233054	1	11/21/2016 13:46	BN
4-Methyl-2-pentanone	BRL	10		ug/L	233054	1	11/21/2016 13:46	BN
Acetone	BRL	50		ug/L	233054	1	11/21/2016 13:46	BN
Benzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Bromodichloromethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Bromoform	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Bromomethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Carbon disulfide	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Carbon tetrachloride	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Chlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Chloroethane	BRL	10		ug/L	233054	1	11/21/2016 13:46	BN
Chloroform	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Chloromethane	BRL	10		ug/L	233054	1	11/21/2016 13:46	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Cyclohexane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Dibromochloromethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Dichlorodifluoromethane	BRL	10		ug/L	233054	1	11/21/2016 13:46	BN
Ethylbenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Freon-113	BRL	10		ug/L	233054	1	11/21/2016 13:46	BN
Isopropylbenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
m,p-Xylene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Methyl acetate	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Methylcyclohexane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Methylene chloride	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
o-Xylene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 5:20:00 PM
Lab ID: 1611D75-022	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Tetrachloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Toluene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Trichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Trichlorofluoromethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:46	BN
Vinyl chloride	BRL	2.0		ug/L	233054	1	11/21/2016 13:46	BN
Surr: 4-Bromofluorobenzene	85.5	66.1-129		%REC	233054	1	11/21/2016 13:46	BN
Surr: Dibromofluoromethane	89.4	83.6-123		%REC	233054	1	11/21/2016 13:46	BN
Surr: Toluene-d8	88.7	81.8-118		%REC	233054	1	11/21/2016 13:46	BN
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 14:02	JR
GASOLINE RANGE ORGANICS SW8015C			(SW5030B)					
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/17/2016 12:04	JE
Surr: a.a.a-trifluorotoluene	109	75.1-120		%REC	233054	1	11/17/2016 12:04	JE
DIESEL RANGE ORGANICS SW8015C			(SW3510C)					
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/17/2016 20:20	RF
Surr: Dioctylphthalate	77.8	47-119		%REC	233098	1	11/17/2016 20:20	RF
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 5:20:00 PM
Lab ID: 1611D75-022	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 16:15	RF
Surr: Nitrobenzene-d5	59.7	56.9-120		%REC	233025	1	11/22/2016 16:15	RF
Surr: 2-Fluorobiphenyl	63.2	55.6-120		%REC	233025	1	11/22/2016 16:15	RF
Surr: 4-Terphenyl-d14	82	45.7-120		%REC	233025	1	11/22/2016 16:15	RF
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:10	IO
Barium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:10	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:10	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 22:10	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:10	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:10	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:10	IO

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 5:30:00 PM
Lab ID: 1611D75-023	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,1-Dichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,1-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,2-Dibromoethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,2-Dichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,2-Dichloropropane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
2-Butanone	BRL	50		ug/L	233054	1	11/21/2016 13:18	BN
2-Hexanone	BRL	10		ug/L	233054	1	11/21/2016 13:18	BN
4-Methyl-2-pentanone	BRL	10		ug/L	233054	1	11/21/2016 13:18	BN
Acetone	BRL	50		ug/L	233054	1	11/21/2016 13:18	BN
Benzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Bromodichloromethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Bromoform	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Bromomethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Carbon disulfide	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Carbon tetrachloride	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Chlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Chloroethane	BRL	10		ug/L	233054	1	11/21/2016 13:18	BN
Chloroform	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Chloromethane	BRL	10		ug/L	233054	1	11/21/2016 13:18	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Cyclohexane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Dibromochloromethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Dichlorodifluoromethane	BRL	10		ug/L	233054	1	11/21/2016 13:18	BN
Ethylbenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Freon-113	BRL	10		ug/L	233054	1	11/21/2016 13:18	BN
Isopropylbenzene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
m,p-Xylene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Methyl acetate	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Methylcyclohexane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Methylene chloride	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
o-Xylene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	RB-3
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/13/2016 5:30:00 PM
Lab ID:	1611D75-023	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Tetrachloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Toluene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Trichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Trichlorofluoromethane	BRL	5.0		ug/L	233054	1	11/21/2016 13:18	BN
Vinyl chloride	BRL	2.0		ug/L	233054	1	11/21/2016 13:18	BN
Surr: 4-Bromofluorobenzene	84.6	66.1-129		%REC	233054	1	11/21/2016 13:18	BN
Surr: Dibromofluoromethane	90.4	83.6-123		%REC	233054	1	11/21/2016 13:18	BN
Surr: Toluene-d8	89	81.8-118		%REC	233054	1	11/21/2016 13:18	BN
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 14:04	JR
GASOLINE RANGE ORGANICS SW8015C			(SW5030B)					
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/17/2016 12:33	JE
Surr: a.a.a-trifluorotoluene	108	75.1-120		%REC	233054	1	11/17/2016 12:33	JE
DIESEL RANGE ORGANICS SW8015C			(SW3510C)					
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/17/2016 20:44	RF
Surr: Dioctylphthalate	68.1	47-119		%REC	233098	1	11/17/2016 20:44	RF
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/13/2016 5:30:00 PM
Lab ID: 1611D75-023	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 16:44	RF
Surr: Nitrobenzene-d5	60.6	56.9-120		%REC	233025	1	11/22/2016 16:44	RF
Surr: 2-Fluorobiphenyl	62	55.6-120		%REC	233025	1	11/22/2016 16:44	RF
Surr: 4-Terphenyl-d14	80.5	45.7-120		%REC	233025	1	11/22/2016 16:44	RF
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:13	IO
Barium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:13	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:13	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 22:13	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:13	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:13	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:13	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-1-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 8:00:00 AM
Lab ID: 1611D75-024	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
1,1'-Biphenyl	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2,4,5-Trichlorophenol	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2,4,6-Trichlorophenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2,4-Dichlorophenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2,4-Dimethylphenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2,4-Dinitrophenol	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2,4-Dinitrotoluene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2,6-Dinitrotoluene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2-Chloronaphthalene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2-Chlorophenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2-Methylnaphthalene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2-Methylphenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2-Nitroaniline	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
2-Nitrophenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
3,3'-Dichlorobenzidine	BRL	750		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
3-Nitroaniline	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
4,6-Dinitro-2-methylphenol	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
4-Bromophenyl phenyl ether	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
4-Chloro-3-methylphenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
4-Chloroaniline	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
4-Chlorophenyl phenyl ether	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
4-Methylphenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
4-Nitroaniline	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
4-Nitrophenol	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Acenaphthene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Acenaphthylene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Acetophenone	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Anthracene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Atrazine	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Benz(a)anthracene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Benzaldehyde	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Benzo(a)pyrene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Benzo(b)fluoranthene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Benzo(g,h,i)perylene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Benzo(k)fluoranthene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Bis(2-chloroethoxy)methane	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Bis(2-chloroethyl)ether	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Bis(2-chloroisopropyl)ether	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Bis(2-ethylhexyl)phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Butyl benzyl phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Caprolactam	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-1-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 8:00:00 AM
Lab ID: 1611D75-024	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Chrysene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Di-n-butyl phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Di-n-octyl phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Dibenz(a,h)anthracene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Dibenzofuran	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Diethyl phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Dimethyl phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Fluoranthene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Fluorene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Hexachlorobenzene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Hexachlorobutadiene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Hexachlorocyclopentadiene	BRL	740		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Hexachloroethane	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Indeno(1,2,3-cd)pyrene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Isophorone	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
N-Nitrosodi-n-propylamine	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
N-Nitrosodiphenylamine	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Naphthalene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Nitrobenzene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Pentachlorophenol	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Phenanthrene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Phenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Pyrene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 14:03	YH
Surr: 2,4,6-Tribromophenol	85.6	42.4-130		%REC	232963	1	11/18/2016 14:03	YH
Surr: 2-Fluorobiphenyl	87.1	51.5-120		%REC	232963	1	11/18/2016 14:03	YH
Surr: 2-Fluorophenol	74.5	41.1-120		%REC	232963	1	11/18/2016 14:03	YH
Surr: 4-Terphenyl-d14	92.8	52.7-117		%REC	232963	1	11/18/2016 14:03	YH
Surr: Nitrobenzene-d5	75.9	41.4-120		%REC	232963	1	11/18/2016 14:03	YH
Surr: Phenol-d5	79.8	47.6-120		%REC	232963	1	11/18/2016 14:03	YH
PERCENT MOISTURE D2216								
Percent Moisture	11.1	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-1-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 8:02:00 AM
Lab ID: 1611D75-025	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D		(SW3550C)						
1,1'-Biphenyl	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2,4,6-Trichlorophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2,4-Dichlorophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2,4-Dimethylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2,4-Dinitrotoluene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2,6-Dinitrotoluene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2-Chloronaphthalene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2-Chlorophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2-Methylnaphthalene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2-Methylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
2-Nitrophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
3,3'-Dichlorobenzidine	BRL	800		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
4-Bromophenyl phenyl ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
4-Chloro-3-methylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
4-Chloroaniline	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
4-Chlorophenyl phenyl ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
4-Methylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Acenaphthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Acenaphthylene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Acetophenone	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Anthracene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Atrazine	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Benz(a)anthracene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Benzaldehyde	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Benzo(a)pyrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Bis(2-chloroethoxy)methane	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Bis(2-chloroethyl)ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Bis(2-chloroisopropyl)ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Bis(2-ethylhexyl)phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Butyl benzyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Caprolactam	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-1-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 8:02:00 AM
Lab ID: 1611D75-025	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Chrysene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Di-n-butyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Di-n-octyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Dibenzofuran	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Diethyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Dimethyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Fluoranthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Fluorene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Hexachlorobenzene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Hexachlorobutadiene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Hexachlorocyclopentadiene	BRL	790		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Hexachloroethane	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Isophorone	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
N-Nitrosodi-n-propylamine	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
N-Nitrosodiphenylamine	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Naphthalene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Nitrobenzene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Phenanthrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Phenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Pyrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 14:31	YH
Surr: 2,4,6-Tribromophenol	81.3	42.4-130		%REC	232963	1	11/18/2016 14:31	YH
Surr: 2-Fluorobiphenyl	77.7	51.5-120		%REC	232963	1	11/18/2016 14:31	YH
Surr: 2-Fluorophenol	71	41.1-120		%REC	232963	1	11/18/2016 14:31	YH
Surr: 4-Terphenyl-d14	91.2	52.7-117		%REC	232963	1	11/18/2016 14:31	YH
Surr: Nitrobenzene-d5	67.4	41.4-120		%REC	232963	1	11/18/2016 14:31	YH
Surr: Phenol-d5	75.2	47.6-120		%REC	232963	1	11/18/2016 14:31	YH
PERCENT MOISTURE D2216								
Percent Moisture	16.0	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-2-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 8:30:00 AM
Lab ID: 1611D75-026	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D (SW3550C)								
1,1'-Biphenyl	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2,4,6-Trichlorophenol	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2,4-Dichlorophenol	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2,4-Dimethylphenol	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2,4-Dinitrotoluene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2,6-Dinitrotoluene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2-Chloronaphthalene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2-Chlorophenol	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2-Methylnaphthalene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2-Methylphenol	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
2-Nitrophenol	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
3,3'-Dichlorobenzidine	BRL	770		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
4-Bromophenyl phenyl ether	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
4-Chloro-3-methylphenol	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
4-Chloroaniline	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
4-Chlorophenyl phenyl ether	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
4-Methylphenol	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Acenaphthene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Acenaphthylene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Acetophenone	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Anthracene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Atrazine	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Benz(a)anthracene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Benzaldehyde	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Benzo(a)pyrene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Benzo(b)fluoranthene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Benzo(g,h,i)perylene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Benzo(k)fluoranthene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Bis(2-chloroethoxy)methane	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Bis(2-chloroethyl)ether	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Bis(2-chloroisopropyl)ether	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Bis(2-ethylhexyl)phthalate	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Butyl benzyl phthalate	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Caprolactam	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-2-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 8:30:00 AM
Lab ID: 1611D75-026	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Chrysene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Di-n-butyl phthalate	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Di-n-octyl phthalate	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Dibenz(a,h)anthracene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Dibenzofuran	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Diethyl phthalate	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Dimethyl phthalate	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Fluoranthene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Fluorene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Hexachlorobenzene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Hexachlorobutadiene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Hexachlorocyclopentadiene	BRL	760		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Hexachloroethane	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Indeno(1,2,3-cd)pyrene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Isophorone	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
N-Nitrosodi-n-propylamine	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
N-Nitrosodiphenylamine	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Naphthalene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Nitrobenzene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Phenanthrene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Phenol	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Pyrene	BRL	380		ug/Kg-dry	232963	1	11/18/2016 15:01	YH
Surr: 2,4,6-Tribromophenol	86.3	42.4-130		%REC	232963	1	11/18/2016 15:01	YH
Surr: 2-Fluorobiphenyl	87.7	51.5-120		%REC	232963	1	11/18/2016 15:01	YH
Surr: 2-Fluorophenol	79	41.1-120		%REC	232963	1	11/18/2016 15:01	YH
Surr: 4-Terphenyl-d14	92.5	52.7-117		%REC	232963	1	11/18/2016 15:01	YH
Surr: Nitrobenzene-d5	74.3	41.4-120		%REC	232963	1	11/18/2016 15:01	YH
Surr: Phenol-d5	82.5	47.6-120		%REC	232963	1	11/18/2016 15:01	YH
PERCENT MOISTURE D2216								
Percent Moisture	13.2	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-2-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 8:32:00 AM
Lab ID: 1611D75-027	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D (SW3550C)								
1,1'-Biphenyl	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2,4,6-Trichlorophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2,4-Dichlorophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2,4-Dimethylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2,4-Dinitrotoluene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2,6-Dinitrotoluene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2-Chloronaphthalene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2-Chlorophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2-Methylnaphthalene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2-Methylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
2-Nitrophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
3,3'-Dichlorobenzidine	BRL	800		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
4-Bromophenyl phenyl ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
4-Chloro-3-methylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
4-Chloroaniline	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
4-Chlorophenyl phenyl ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
4-Methylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Acenaphthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Acenaphthylene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Acetophenone	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Anthracene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Atrazine	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Benz(a)anthracene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Benzaldehyde	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Benzo(a)pyrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Bis(2-chloroethoxy)methane	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Bis(2-chloroethyl)ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Bis(2-chloroisopropyl)ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Bis(2-ethylhexyl)phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Butyl benzyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Caprolactam	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-2-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 8:32:00 AM
Lab ID: 1611D75-027	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Chrysene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Di-n-butyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Di-n-octyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Dibenzofuran	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Diethyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Dimethyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Fluoranthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Fluorene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Hexachlorobenzene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Hexachlorobutadiene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Hexachlorocyclopentadiene	BRL	780		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Hexachloroethane	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Isophorone	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
N-Nitrosodi-n-propylamine	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
N-Nitrosodiphenylamine	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Naphthalene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Nitrobenzene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Phenanthrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Phenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Pyrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 15:30	YH
Surr: 2,4,6-Tribromophenol	84.4	42.4-130		%REC	232963	1	11/18/2016 15:30	YH
Surr: 2-Fluorobiphenyl	83.6	51.5-120		%REC	232963	1	11/18/2016 15:30	YH
Surr: 2-Fluorophenol	77.1	41.1-120		%REC	232963	1	11/18/2016 15:30	YH
Surr: 4-Terphenyl-d14	93.2	52.7-117		%REC	232963	1	11/18/2016 15:30	YH
Surr: Nitrobenzene-d5	72.1	41.4-120		%REC	232963	1	11/18/2016 15:30	YH
Surr: Phenol-d5	76.9	47.6-120		%REC	232963	1	11/18/2016 15:30	YH

PERCENT MOISTURE D2216

Percent Moisture	15.8	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-3-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 9:00:00 AM
Lab ID: 1611D75-028	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D (SW3550C)								
1,1'-Biphenyl	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2,4,5-Trichlorophenol	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2,4,6-Trichlorophenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2,4-Dichlorophenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2,4-Dimethylphenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2,4-Dinitrophenol	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2,4-Dinitrotoluene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2,6-Dinitrotoluene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2-Chloronaphthalene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2-Chlorophenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2-Methylnaphthalene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2-Methylphenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2-Nitroaniline	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
2-Nitrophenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
3,3'-Dichlorobenzidine	BRL	760		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
3-Nitroaniline	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
4,6-Dinitro-2-methylphenol	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
4-Bromophenyl phenyl ether	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
4-Chloro-3-methylphenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
4-Chloroaniline	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
4-Chlorophenyl phenyl ether	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
4-Methylphenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
4-Nitroaniline	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
4-Nitrophenol	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Acenaphthene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Acenaphthylene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Acetophenone	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Anthracene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Atrazine	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Benz(a)anthracene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Benzaldehyde	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Benzo(a)pyrene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Benzo(b)fluoranthene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Benzo(g,h,i)perylene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Benzo(k)fluoranthene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Bis(2-chloroethoxy)methane	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Bis(2-chloroethyl)ether	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Bis(2-chloroisopropyl)ether	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Bis(2-ethylhexyl)phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Butyl benzyl phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Caprolactam	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-3-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 9:00:00 AM
Lab ID: 1611D75-028	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Chrysene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Di-n-butyl phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Di-n-octyl phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Dibenz(a,h)anthracene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Dibenzofuran	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Diethyl phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Dimethyl phthalate	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Fluoranthene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Fluorene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Hexachlorobenzene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Hexachlorobutadiene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Hexachlorocyclopentadiene	BRL	750		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Hexachloroethane	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Indeno(1,2,3-cd)pyrene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Isophorone	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
N-Nitrosodi-n-propylamine	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
N-Nitrosodiphenylamine	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Naphthalene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Nitrobenzene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Pentachlorophenol	BRL	1900		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Phenanthrene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Phenol	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Pyrene	BRL	370		ug/Kg-dry	232963	1	11/18/2016 15:59	YH
Surr: 2,4,6-Tribromophenol	76.4	42.4-130		%REC	232963	1	11/18/2016 15:59	YH
Surr: 2-Fluorobiphenyl	77.5	51.5-120		%REC	232963	1	11/18/2016 15:59	YH
Surr: 2-Fluorophenol	69.8	41.1-120		%REC	232963	1	11/18/2016 15:59	YH
Surr: 4-Terphenyl-d14	84.7	52.7-117		%REC	232963	1	11/18/2016 15:59	YH
Surr: Nitrobenzene-d5	67.9	41.4-120		%REC	232963	1	11/18/2016 15:59	YH
Surr: Phenol-d5	71.8	47.6-120		%REC	232963	1	11/18/2016 15:59	YH

PERCENT MOISTURE D2216

Percent Moisture	11.7	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-3-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 9:02:00 AM
Lab ID: 1611D75-029	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
1,1'-Biphenyl	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2,4,6-Trichlorophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2,4-Dichlorophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2,4-Dimethylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2,4-Dinitrotoluene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2,6-Dinitrotoluene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2-Chloronaphthalene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2-Chlorophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2-Methylnaphthalene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2-Methylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
2-Nitrophenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
3,3'-Dichlorobenzidine	BRL	790		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
4-Bromophenyl phenyl ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
4-Chloro-3-methylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
4-Chloroaniline	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
4-Chlorophenyl phenyl ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
4-Methylphenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Acenaphthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Acenaphthylene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Acetophenone	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Anthracene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Atrazine	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Benz(a)anthracene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Benzaldehyde	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Benzo(a)pyrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Bis(2-chloroethoxy)methane	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Bis(2-chloroethyl)ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Bis(2-chloroisopropyl)ether	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Bis(2-ethylhexyl)phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Butyl benzyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Caprolactam	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-3-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 9:02:00 AM
Lab ID: 1611D75-029	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Chrysene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Di-n-butyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Di-n-octyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Dibenzofuran	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Diethyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Dimethyl phthalate	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Fluoranthene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Fluorene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Hexachlorobenzene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Hexachlorobutadiene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Hexachlorocyclopentadiene	BRL	780		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Hexachloroethane	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Isophorone	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
N-Nitrosodi-n-propylamine	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
N-Nitrosodiphenylamine	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Naphthalene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Nitrobenzene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Phenanthrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Phenol	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Pyrene	BRL	390		ug/Kg-dry	232963	1	11/18/2016 17:25	YH
Surr: 2,4,6-Tribromophenol	80.5	42.4-130		%REC	232963	1	11/18/2016 17:25	YH
Surr: 2-Fluorobiphenyl	79.8	51.5-120		%REC	232963	1	11/18/2016 17:25	YH
Surr: 2-Fluorophenol	72.3	41.1-120		%REC	232963	1	11/18/2016 17:25	YH
Surr: 4-Terphenyl-d14	94.3	52.7-117		%REC	232963	1	11/18/2016 17:25	YH
Surr: Nitrobenzene-d5	72.1	41.4-120		%REC	232963	1	11/18/2016 17:25	YH
Surr: Phenol-d5	72.9	47.6-120		%REC	232963	1	11/18/2016 17:25	YH

PERCENT MOISTURE D2216

Percent Moisture	15.1	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-4-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 9:35:00 AM
Lab ID: 1611D75-030	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
1,1'-Biphenyl	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2,4,5-Trichlorophenol	BRL	1900		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2,4,6-Trichlorophenol	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2,4-Dichlorophenol	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2,4-Dimethylphenol	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2,4-Dinitrophenol	BRL	1900		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2,4-Dinitrotoluene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2,6-Dinitrotoluene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2-Chloronaphthalene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2-Chlorophenol	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2-Methylnaphthalene	700	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2-Methylphenol	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2-Nitroaniline	BRL	1900		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
2-Nitrophenol	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
3,3'-Dichlorobenzidine	BRL	760		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
3-Nitroaniline	BRL	1900		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
4,6-Dinitro-2-methylphenol	BRL	1900		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
4-Bromophenyl phenyl ether	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
4-Chloro-3-methylphenol	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
4-Chloroaniline	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
4-Chlorophenyl phenyl ether	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
4-Methylphenol	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
4-Nitroaniline	BRL	1900		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
4-Nitrophenol	BRL	1900		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Acenaphthene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Acenaphthylene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Acetophenone	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Anthracene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Atrazine	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Benz(a)anthracene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Benzaldehyde	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Benzo(a)pyrene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Benzo(b)fluoranthene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Benzo(g,h,i)perylene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Benzo(k)fluoranthene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Bis(2-chloroethoxy)methane	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Bis(2-chloroethyl)ether	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Bis(2-chloroisopropyl)ether	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Bis(2-ethylhexyl)phthalate	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Butyl benzyl phthalate	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Caprolactam	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	SB-51-4-0-2
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/14/2016 9:35:00 AM
Lab ID:	1611D75-030	Matrix:	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Chrysene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Di-n-butyl phthalate	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Di-n-octyl phthalate	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Dibenz(a,h)anthracene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Dibenzofuran	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Diethyl phthalate	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Dimethyl phthalate	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Fluoranthene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Fluorene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Hexachlorobenzene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Hexachlorobutadiene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Hexachlorocyclopentadiene	BRL	750		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Hexachloroethane	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Indeno(1,2,3-cd)pyrene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Isophorone	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
N-Nitrosodi-n-propylamine	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
N-Nitrosodiphenylamine	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Naphthalene	440	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Nitrobenzene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Pentachlorophenol	BRL	1900		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Phenanthrene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Phenol	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Pyrene	BRL	370		ug/Kg-dry	233173	1	11/18/2016 19:18	YH
Surr: 2,4,6-Tribromophenol	68.6	42.4-130		%REC	233173	1	11/18/2016 19:18	YH
Surr: 2-Fluorobiphenyl	69.8	51.5-120		%REC	233173	1	11/18/2016 19:18	YH
Surr: 2-Fluorophenol	58.9	41.1-120		%REC	233173	1	11/18/2016 19:18	YH
Surr: 4-Terphenyl-d14	72.6	52.7-117		%REC	233173	1	11/18/2016 19:18	YH
Surr: Nitrobenzene-d5	58.4	41.4-120		%REC	233173	1	11/18/2016 19:18	YH
Surr: Phenol-d5	61.8	47.6-120		%REC	233173	1	11/18/2016 19:18	YH

PERCENT MOISTURE D2216

Percent Moisture	11.9	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-4-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 9:37:00 AM
Lab ID: 1611D75-031	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D (SW3550C)								
1,1'-Biphenyl	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2,4,5-Trichlorophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2,4,6-Trichlorophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2,4-Dichlorophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2,4-Dimethylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2,4-Dinitrophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2,4-Dinitrotoluene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2,6-Dinitrotoluene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2-Chloronaphthalene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2-Chlorophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2-Methylnaphthalene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2-Methylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
2-Nitrophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
3,3'-Dichlorobenzidine	BRL	810		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
3-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
4,6-Dinitro-2-methylphenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
4-Bromophenyl phenyl ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
4-Chloro-3-methylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
4-Chloroaniline	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
4-Chlorophenyl phenyl ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
4-Methylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
4-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
4-Nitrophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Acenaphthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Acenaphthylene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Acetophenone	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Anthracene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Atrazine	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Benz(a)anthracene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Benzaldehyde	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Benzo(a)pyrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Benzo(b)fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Benzo(g,h,i)perylene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Benzo(k)fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Bis(2-chloroethoxy)methane	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Bis(2-chloroethyl)ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Bis(2-chloroisopropyl)ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Bis(2-ethylhexyl)phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Butyl benzyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Caprolactam	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-4-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 9:37:00 AM
Lab ID: 1611D75-031	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Chrysene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Di-n-butyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Di-n-octyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Dibenz(a,h)anthracene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Dibenzofuran	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Diethyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Dimethyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Fluorene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Hexachlorobenzene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Hexachlorobutadiene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Hexachlorocyclopentadiene	BRL	800		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Hexachloroethane	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Indeno(1,2,3-cd)pyrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Isophorone	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
N-Nitrosodi-n-propylamine	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
N-Nitrosodiphenylamine	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Naphthalene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Nitrobenzene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Pentachlorophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Phenanthrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Phenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Pyrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 19:47	YH
Surr: 2,4,6-Tribromophenol	74.3	42.4-130		%REC	233173	1	11/18/2016 19:47	YH
Surr: 2-Fluorobiphenyl	72.4	51.5-120		%REC	233173	1	11/18/2016 19:47	YH
Surr: 2-Fluorophenol	61.6	41.1-120		%REC	233173	1	11/18/2016 19:47	YH
Surr: 4-Terphenyl-d14	78.3	52.7-117		%REC	233173	1	11/18/2016 19:47	YH
Surr: Nitrobenzene-d5	62.2	41.4-120		%REC	233173	1	11/18/2016 19:47	YH
Surr: Phenol-d5	62.4	47.6-120		%REC	233173	1	11/18/2016 19:47	YH

PERCENT MOISTURE D2216

Percent Moisture	17.3	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-4-6-10
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 9:39:00 AM
Lab ID: 1611D75-032	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
1,1'-Biphenyl	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2,4,5-Trichlorophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2,4,6-Trichlorophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2,4-Dichlorophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2,4-Dimethylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2,4-Dinitrophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2,4-Dinitrotoluene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2,6-Dinitrotoluene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2-Chloronaphthalene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2-Chlorophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2-Methylnaphthalene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2-Methylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
2-Nitrophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
3,3'-Dichlorobenzidine	BRL	810		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
3-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
4,6-Dinitro-2-methylphenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
4-Bromophenyl phenyl ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
4-Chloro-3-methylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
4-Chloroaniline	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
4-Chlorophenyl phenyl ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
4-Methylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
4-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
4-Nitrophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Acenaphthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Acenaphthylene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Acetophenone	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Anthracene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Atrazine	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Benz(a)anthracene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Benzaldehyde	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Benzo(a)pyrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Benzo(b)fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Benzo(g,h,i)perylene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Benzo(k)fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Bis(2-chloroethoxy)methane	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Bis(2-chloroethyl)ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Bis(2-chloroisopropyl)ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Bis(2-ethylhexyl)phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Butyl benzyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Caprolactam	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-4-6-10
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 9:39:00 AM
Lab ID: 1611D75-032	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Chrysene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Di-n-butyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Di-n-octyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Dibenz(a,h)anthracene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Dibenzofuran	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Diethyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Dimethyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Fluorene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Hexachlorobenzene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Hexachlorobutadiene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Hexachlorocyclopentadiene	BRL	800		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Hexachloroethane	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Indeno(1,2,3-cd)pyrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Isophorone	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
N-Nitrosodi-n-propylamine	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
N-Nitrosodiphenylamine	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Naphthalene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Nitrobenzene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Pentachlorophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Phenanthrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Phenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Pyrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:16	YH
Surr: 2,4,6-Tribromophenol	80.2	42.4-130		%REC	233173	1	11/18/2016 20:16	YH
Surr: 2-Fluorobiphenyl	82.5	51.5-120		%REC	233173	1	11/18/2016 20:16	YH
Surr: 2-Fluorophenol	76.2	41.1-120		%REC	233173	1	11/18/2016 20:16	YH
Surr: 4-Terphenyl-d14	87.1	52.7-117		%REC	233173	1	11/18/2016 20:16	YH
Surr: Nitrobenzene-d5	72.1	41.4-120		%REC	233173	1	11/18/2016 20:16	YH
Surr: Phenol-d5	77.7	47.6-120		%REC	233173	1	11/18/2016 20:16	YH

PERCENT MOISTURE D2216

Percent Moisture	17.6	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-5-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 10:30:00 AM
Lab ID: 1611D75-033	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
1,1'-Biphenyl	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2,4,5-Trichlorophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2,4,6-Trichlorophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2,4-Dichlorophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2,4-Dimethylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2,4-Dinitrophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2,4-Dinitrotoluene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2,6-Dinitrotoluene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2-Chloronaphthalene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2-Chlorophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2-Methylnaphthalene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2-Methylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
2-Nitrophenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
3,3'-Dichlorobenzidine	BRL	820		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
3-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
4,6-Dinitro-2-methylphenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
4-Bromophenyl phenyl ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
4-Chloro-3-methylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
4-Chloroaniline	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
4-Chlorophenyl phenyl ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
4-Methylphenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
4-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
4-Nitrophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Acenaphthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Acenaphthylene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Acetophenone	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Anthracene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Atrazine	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Benz(a)anthracene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Benzaldehyde	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Benzo(a)pyrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Benzo(b)fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Benzo(g,h,i)perylene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Benzo(k)fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Bis(2-chloroethoxy)methane	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Bis(2-chloroethyl)ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Bis(2-chloroisopropyl)ether	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Bis(2-ethylhexyl)phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Butyl benzyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Caprolactam	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-5-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 10:30:00 AM
Lab ID: 1611D75-033	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Chrysene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Di-n-butyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Di-n-octyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Dibenz(a,h)anthracene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Dibenzofuran	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Diethyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Dimethyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Fluorene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Hexachlorobenzene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Hexachlorobutadiene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Hexachlorocyclopentadiene	BRL	810		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Hexachloroethane	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Indeno(1,2,3-cd)pyrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Isophorone	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
N-Nitrosodi-n-propylamine	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
N-Nitrosodiphenylamine	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Naphthalene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Nitrobenzene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Pentachlorophenol	BRL	2100		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Phenanthrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Phenol	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Pyrene	BRL	400		ug/Kg-dry	233173	1	11/18/2016 20:44	YH
Surr: 2,4,6-Tribromophenol	51.8	42.4-130		%REC	233173	1	11/18/2016 20:44	YH
Surr: 2-Fluorobiphenyl	74.2	51.5-120		%REC	233173	1	11/18/2016 20:44	YH
Surr: 2-Fluorophenol	45.2	41.1-120		%REC	233173	1	11/18/2016 20:44	YH
Surr: 4-Terphenyl-d14	81.7	52.7-117		%REC	233173	1	11/18/2016 20:44	YH
Surr: Nitrobenzene-d5	64.7	41.4-120		%REC	233173	1	11/18/2016 20:44	YH
Surr: Phenol-d5	55	47.6-120		%REC	233173	1	11/18/2016 20:44	YH

PERCENT MOISTURE D2216

Percent Moisture	18.0	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-5-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 10:32:00 AM
Lab ID: 1611D75-034	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
1,1'-Biphenyl	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2,4,6-Trichlorophenol	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2,4-Dichlorophenol	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2,4-Dimethylphenol	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2,4-Dinitrotoluene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2,6-Dinitrotoluene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2-Chloronaphthalene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2-Chlorophenol	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2-Methylnaphthalene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2-Methylphenol	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
2-Nitrophenol	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
3,3'-Dichlorobenzidine	BRL	780		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
4-Bromophenyl phenyl ether	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
4-Chloro-3-methylphenol	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
4-Chloroaniline	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
4-Chlorophenyl phenyl ether	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
4-Methylphenol	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Acenaphthene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Acenaphthylene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Acetophenone	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Anthracene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Atrazine	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Benz(a)anthracene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Benzaldehyde	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Benzo(a)pyrene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Benzo(b)fluoranthene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Benzo(g,h,i)perylene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Benzo(k)fluoranthene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Bis(2-chloroethoxy)methane	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Bis(2-chloroethyl)ether	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Bis(2-chloroisopropyl)ether	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Bis(2-ethylhexyl)phthalate	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Butyl benzyl phthalate	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Caprolactam	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-5-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 10:32:00 AM
Lab ID: 1611D75-034	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Chrysene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Di-n-butyl phthalate	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Di-n-octyl phthalate	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Dibenz(a,h)anthracene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Dibenzofuran	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Diethyl phthalate	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Dimethyl phthalate	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Fluoranthene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Fluorene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Hexachlorobenzene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Hexachlorobutadiene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Hexachlorocyclopentadiene	BRL	770		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Hexachloroethane	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Indeno(1,2,3-cd)pyrene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Isophorone	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
N-Nitrosodi-n-propylamine	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
N-Nitrosodiphenylamine	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Naphthalene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Nitrobenzene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Phenanthrene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Phenol	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Pyrene	BRL	380		ug/Kg-dry	233173	1	11/21/2016 13:56	YH
Surr: 2,4,6-Tribromophenol	67.2	42.4-130		%REC	233173	1	11/21/2016 13:56	YH
Surr: 2-Fluorobiphenyl	77.7	51.5-120		%REC	233173	1	11/21/2016 13:56	YH
Surr: 2-Fluorophenol	67.5	41.1-120		%REC	233173	1	11/21/2016 13:56	YH
Surr: 4-Terphenyl-d14	87.8	52.7-117		%REC	233173	1	11/21/2016 13:56	YH
Surr: Nitrobenzene-d5	88.1	41.4-120		%REC	233173	1	11/21/2016 13:56	YH
Surr: Phenol-d5	76	47.6-120		%REC	233173	1	11/21/2016 13:56	YH
PERCENT MOISTURE D2216								
Percent Moisture	14.3	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-5-6-8
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 10:34:00 AM
Lab ID: 1611D75-035	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D			(SW3550C)					
1,1'-Biphenyl	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2,4,5-Trichlorophenol	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2,4,6-Trichlorophenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2,4-Dichlorophenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2,4-Dimethylphenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2,4-Dinitrophenol	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2,4-Dinitrotoluene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2,6-Dinitrotoluene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2-Chloronaphthalene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2-Chlorophenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2-Methylnaphthalene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2-Methylphenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
2-Nitrophenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
3,3'-Dichlorobenzidine	BRL	830		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
3-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
4,6-Dinitro-2-methylphenol	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
4-Bromophenyl phenyl ether	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
4-Chloro-3-methylphenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
4-Chloroaniline	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
4-Chlorophenyl phenyl ether	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
4-Methylphenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
4-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
4-Nitrophenol	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Acenaphthene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Acenaphthylene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Acetophenone	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Anthracene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Atrazine	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Benz(a)anthracene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Benzaldehyde	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Benzo(a)pyrene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Benzo(g,h,i)perylene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Benzo(k)fluoranthene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Bis(2-chloroethoxy)methane	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Bis(2-chloroethyl)ether	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Bis(2-chloroisopropyl)ether	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Bis(2-ethylhexyl)phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Butyl benzyl phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Caprolactam	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-5-6-8
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 10:34:00 AM
Lab ID: 1611D75-035	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Chrysene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Di-n-butyl phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Di-n-octyl phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Dibenz(a,h)anthracene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Dibenzofuran	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Diethyl phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Dimethyl phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Fluoranthene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Fluorene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Hexachlorobenzene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Hexachlorobutadiene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Hexachlorocyclopentadiene	BRL	820		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Hexachloroethane	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Isophorone	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
N-Nitrosodi-n-propylamine	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
N-Nitrosodiphenylamine	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Naphthalene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Nitrobenzene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Pentachlorophenol	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Phenanthrene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Phenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Pyrene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:42	YH
Surr: 2,4,6-Tribromophenol	79.4	42.4-130		%REC	233173	1	11/21/2016 15:42	YH
Surr: 2-Fluorobiphenyl	71.6	51.5-120		%REC	233173	1	11/21/2016 15:42	YH
Surr: 2-Fluorophenol	71.7	41.1-120		%REC	233173	1	11/21/2016 15:42	YH
Surr: 4-Terphenyl-d14	82.8	52.7-117		%REC	233173	1	11/21/2016 15:42	YH
Surr: Nitrobenzene-d5	80.9	41.4-120		%REC	233173	1	11/21/2016 15:42	YH
Surr: Phenol-d5	75.8	47.6-120		%REC	233173	1	11/21/2016 15:42	YH
PERCENT MOISTURE D2216								
Percent Moisture	19.6	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-6-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:00:00 AM
Lab ID: 1611D75-036	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
1,1'-Biphenyl	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2,4,6-Trichlorophenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2,4-Dichlorophenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2,4-Dimethylphenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2,4-Dinitrotoluene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2,6-Dinitrotoluene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2-Chloronaphthalene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2-Chlorophenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2-Methylnaphthalene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2-Methylphenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
2-Nitrophenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
3,3'-Dichlorobenzidine	BRL	800		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
4-Bromophenyl phenyl ether	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
4-Chloro-3-methylphenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
4-Chloroaniline	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
4-Chlorophenyl phenyl ether	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
4-Methylphenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Acenaphthene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Acenaphthylene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Acetophenone	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Anthracene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Atrazine	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Benz(a)anthracene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Benzaldehyde	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Benzo(a)pyrene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Benzo(b)fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Benzo(g,h,i)perylene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Benzo(k)fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Bis(2-chloroethoxy)methane	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Bis(2-chloroethyl)ether	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Bis(2-chloroisopropyl)ether	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Bis(2-ethylhexyl)phthalate	570	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Butyl benzyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Caprolactam	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	SB-51-6-0-2
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/14/2016 11:00:00 AM
Lab ID:	1611D75-036	Matrix:	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Chrysene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Di-n-butyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Di-n-octyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Dibenz(a,h)anthracene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Dibenzofuran	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Diethyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Dimethyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Fluorene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Hexachlorobenzene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Hexachlorobutadiene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Hexachlorocyclopentadiene	BRL	790		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Hexachloroethane	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Indeno(1,2,3-cd)pyrene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Isophorone	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
N-Nitrosodi-n-propylamine	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
N-Nitrosodiphenylamine	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Naphthalene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Nitrobenzene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Phenanthrene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Phenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Pyrene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 16:09	YH
Surr: 2,4,6-Tribromophenol	62.4	42.4-130		%REC	233173	1	11/21/2016 16:09	YH
Surr: 2-Fluorobiphenyl	77.2	51.5-120		%REC	233173	1	11/21/2016 16:09	YH
Surr: 2-Fluorophenol	57.7	41.1-120		%REC	233173	1	11/21/2016 16:09	YH
Surr: 4-Terphenyl-d14	89.6	52.7-117		%REC	233173	1	11/21/2016 16:09	YH
Surr: Nitrobenzene-d5	85.1	41.4-120		%REC	233173	1	11/21/2016 16:09	YH
Surr: Phenol-d5	65.8	47.6-120		%REC	233173	1	11/21/2016 16:09	YH
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-6-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:02:00 AM
Lab ID: 1611D75-037	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D (SW3550C)								
1,1'-Biphenyl	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2,4,6-Trichlorophenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2,4-Dichlorophenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2,4-Dimethylphenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2,4-Dinitrotoluene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2,6-Dinitrotoluene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2-Chloronaphthalene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2-Chlorophenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2-Methylnaphthalene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2-Methylphenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
2-Nitrophenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
3,3'-Dichlorobenzidine	BRL	800		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
4-Bromophenyl phenyl ether	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
4-Chloro-3-methylphenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
4-Chloroaniline	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
4-Chlorophenyl phenyl ether	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
4-Methylphenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Acenaphthene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Acenaphthylene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Acetophenone	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Anthracene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Atrazine	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Benz(a)anthracene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Benzaldehyde	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Benzo(a)pyrene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Benzo(b)fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Benzo(g,h,i)perylene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Benzo(k)fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Bis(2-chloroethoxy)methane	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Bis(2-chloroethyl)ether	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Bis(2-chloroisopropyl)ether	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Bis(2-ethylhexyl)phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Butyl benzyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Caprolactam	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-6-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:02:00 AM
Lab ID: 1611D75-037	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Chrysene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Di-n-butyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Di-n-octyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Dibenz(a,h)anthracene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Dibenzofuran	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Diethyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Dimethyl phthalate	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Fluoranthene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Fluorene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Hexachlorobenzene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Hexachlorobutadiene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Hexachlorocyclopentadiene	BRL	790		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Hexachloroethane	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Indeno(1,2,3-cd)pyrene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Isophorone	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
N-Nitrosodi-n-propylamine	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
N-Nitrosodiphenylamine	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Naphthalene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Nitrobenzene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Phenanthrene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Phenol	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Pyrene	BRL	400		ug/Kg-dry	233173	1	11/21/2016 17:02	YH
Surr: 2,4,6-Tribromophenol	66.2	42.4-130		%REC	233173	1	11/21/2016 17:02	YH
Surr: 2-Fluorobiphenyl	64.4	51.5-120		%REC	233173	1	11/21/2016 17:02	YH
Surr: 2-Fluorophenol	62.5	41.1-120		%REC	233173	1	11/21/2016 17:02	YH
Surr: 4-Terphenyl-d14	81	52.7-117		%REC	233173	1	11/21/2016 17:02	YH
Surr: Nitrobenzene-d5	72.5	41.4-120		%REC	233173	1	11/21/2016 17:02	YH
Surr: Phenol-d5	67	47.6-120		%REC	233173	1	11/21/2016 17:02	YH
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-6-6-8
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:04:00 AM
Lab ID: 1611D75-038	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D		(SW3550C)						
1,1'-Biphenyl	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2,4,5-Trichlorophenol	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2,4,6-Trichlorophenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2,4-Dichlorophenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2,4-Dimethylphenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2,4-Dinitrophenol	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2,4-Dinitrotoluene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2,6-Dinitrotoluene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2-Chloronaphthalene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2-Chlorophenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2-Methylnaphthalene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2-Methylphenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
2-Nitrophenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
3,3'-Dichlorobenzidine	BRL	830		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
3-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
4,6-Dinitro-2-methylphenol	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
4-Bromophenyl phenyl ether	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
4-Chloro-3-methylphenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
4-Chloroaniline	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
4-Chlorophenyl phenyl ether	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
4-Methylphenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
4-Nitroaniline	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
4-Nitrophenol	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Acenaphthene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Acenaphthylene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Acetophenone	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Anthracene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Atrazine	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Benz(a)anthracene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Benzaldehyde	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Benzo(a)pyrene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Benzo(g,h,i)perylene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Benzo(k)fluoranthene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Bis(2-chloroethoxy)methane	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Bis(2-chloroethyl)ether	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Bis(2-chloroisopropyl)ether	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Bis(2-ethylhexyl)phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Butyl benzyl phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Caprolactam	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-6-6-8
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:04:00 AM
Lab ID: 1611D75-038	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Chrysene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Di-n-butyl phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Di-n-octyl phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Dibenz(a,h)anthracene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Dibenzofuran	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Diethyl phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Dimethyl phthalate	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Fluoranthene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Fluorene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Hexachlorobenzene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Hexachlorobutadiene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Hexachlorocyclopentadiene	BRL	810		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Hexachloroethane	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Isophorone	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
N-Nitrosodi-n-propylamine	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
N-Nitrosodiphenylamine	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Naphthalene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Nitrobenzene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Pentachlorophenol	BRL	2100		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Phenanthrene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Phenol	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Pyrene	BRL	410		ug/Kg-dry	233173	1	11/21/2016 15:05	YH
Surr: 2,4,6-Tribromophenol	89.4	42.4-130		%REC	233173	1	11/21/2016 15:05	YH
Surr: 2-Fluorobiphenyl	74.1	51.5-120		%REC	233173	1	11/21/2016 15:05	YH
Surr: 2-Fluorophenol	77.3	41.1-120		%REC	233173	1	11/21/2016 15:05	YH
Surr: 4-Terphenyl-d14	87.9	52.7-117		%REC	233173	1	11/21/2016 15:05	YH
Surr: Nitrobenzene-d5	80.6	41.4-120		%REC	233173	1	11/21/2016 15:05	YH
Surr: Phenol-d5	78.2	47.6-120		%REC	233173	1	11/21/2016 15:05	YH

PERCENT MOISTURE D2216

Percent Moisture	18.9	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-7-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:30:00 AM
Lab ID: 1611D75-039	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D		(SW3550C)						
1,1'-Biphenyl	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2,4,6-Trichlorophenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2,4-Dichlorophenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2,4-Dimethylphenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2,4-Dinitrotoluene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2,6-Dinitrotoluene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2-Chloronaphthalene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2-Chlorophenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2-Methylnaphthalene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2-Methylphenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
2-Nitrophenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
3,3'-Dichlorobenzidine	BRL	780		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
4-Bromophenyl phenyl ether	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
4-Chloro-3-methylphenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
4-Chloroaniline	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
4-Chlorophenyl phenyl ether	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
4-Methylphenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Acenaphthene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Acenaphthylene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Acetophenone	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Anthracene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Atrazine	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Benz(a)anthracene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Benzaldehyde	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Benzo(a)pyrene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Bis(2-chloroethoxy)methane	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Bis(2-chloroethyl)ether	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Bis(2-chloroisopropyl)ether	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Bis(2-ethylhexyl)phthalate	520	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Butyl benzyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Caprolactam	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-7-0-2
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:30:00 AM
Lab ID: 1611D75-039	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Chrysene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Di-n-butyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Di-n-octyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Dibenzofuran	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Diethyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Dimethyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Fluoranthene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Fluorene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Hexachlorobenzene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Hexachlorobutadiene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Hexachlorocyclopentadiene	BRL	770		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Hexachloroethane	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Isophorone	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
N-Nitrosodi-n-propylamine	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
N-Nitrosodiphenylamine	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Naphthalene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Nitrobenzene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Phenanthrene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Phenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Pyrene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 16:23	YH
Surr: 2,4,6-Tribromophenol	84	42.4-130		%REC	233173	1	11/21/2016 16:23	YH
Surr: 2-Fluorobiphenyl	72.5	51.5-120		%REC	233173	1	11/21/2016 16:23	YH
Surr: 2-Fluorophenol	68.3	41.1-120		%REC	233173	1	11/21/2016 16:23	YH
Surr: 4-Terphenyl-d14	82.5	52.7-117		%REC	233173	1	11/21/2016 16:23	YH
Surr: Nitrobenzene-d5	75.5	41.4-120		%REC	233173	1	11/21/2016 16:23	YH
Surr: Phenol-d5	70.3	47.6-120		%REC	233173	1	11/21/2016 16:23	YH

PERCENT MOISTURE D2216

Percent Moisture	14.4	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-7-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:32:00 AM
Lab ID: 1611D75-040	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D			(SW3550C)					
1,1'-Biphenyl	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2,4,5-Trichlorophenol	BRL	2300		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2,4,6-Trichlorophenol	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2,4-Dichlorophenol	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2,4-Dimethylphenol	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2,4-Dinitrophenol	BRL	2300		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2,4-Dinitrotoluene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2,6-Dinitrotoluene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2-Chloronaphthalene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2-Chlorophenol	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2-Methylnaphthalene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2-Methylphenol	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2-Nitroaniline	BRL	2300		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
2-Nitrophenol	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
3,3'-Dichlorobenzidine	BRL	900		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
3-Nitroaniline	BRL	2300		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
4,6-Dinitro-2-methylphenol	BRL	2300		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
4-Bromophenyl phenyl ether	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
4-Chloro-3-methylphenol	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
4-Chloroaniline	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
4-Chlorophenyl phenyl ether	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
4-Methylphenol	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
4-Nitroaniline	BRL	2300		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
4-Nitrophenol	BRL	2300		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Acenaphthene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Acenaphthylene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Acetophenone	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Anthracene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Atrazine	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Benz(a)anthracene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Benzaldehyde	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Benzo(a)pyrene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Benzo(b)fluoranthene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Benzo(g,h,i)perylene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Benzo(k)fluoranthene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Bis(2-chloroethoxy)methane	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Bis(2-chloroethyl)ether	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Bis(2-chloroisopropyl)ether	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Bis(2-ethylhexyl)phthalate	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Butyl benzyl phthalate	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Caprolactam	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-7-2-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:32:00 AM
Lab ID: 1611D75-040	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Chrysene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Di-n-butyl phthalate	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Di-n-octyl phthalate	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Dibenz(a,h)anthracene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Dibenzofuran	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Diethyl phthalate	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Dimethyl phthalate	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Fluoranthene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Fluorene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Hexachlorobenzene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Hexachlorobutadiene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Hexachlorocyclopentadiene	BRL	880		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Hexachloroethane	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Indeno(1,2,3-cd)pyrene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Isophorone	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
N-Nitrosodi-n-propylamine	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
N-Nitrosodiphenylamine	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Naphthalene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Nitrobenzene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Pentachlorophenol	BRL	2300		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Phenanthrene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Phenol	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Pyrene	BRL	440		ug/Kg-dry	233173	1	11/21/2016 16:49	YH
Surr: 2,4,6-Tribromophenol	90.5	42.4-130		%REC	233173	1	11/21/2016 16:49	YH
Surr: 2-Fluorobiphenyl	73.5	51.5-120		%REC	233173	1	11/21/2016 16:49	YH
Surr: 2-Fluorophenol	73.1	41.1-120		%REC	233173	1	11/21/2016 16:49	YH
Surr: 4-Terphenyl-d14	87.2	52.7-117		%REC	233173	1	11/21/2016 16:49	YH
Surr: Nitrobenzene-d5	79.7	41.4-120		%REC	233173	1	11/21/2016 16:49	YH
Surr: Phenol-d5	73.9	47.6-120		%REC	233173	1	11/21/2016 16:49	YH
PERCENT MOISTURE D2216								
Percent Moisture	25.4	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-7-6-9
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:34:00 AM
Lab ID: 1611D75-041	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D		(SW3550C)						
1,1'-Biphenyl	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2,4,6-Trichlorophenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2,4-Dichlorophenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2,4-Dimethylphenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2,4-Dinitrotoluene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2,6-Dinitrotoluene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2-Chloronaphthalene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2-Chlorophenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2-Methylnaphthalene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2-Methylphenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
2-Nitrophenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
3,3'-Dichlorobenzidine	BRL	800		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
4-Bromophenyl phenyl ether	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
4-Chloro-3-methylphenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
4-Chloroaniline	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
4-Chlorophenyl phenyl ether	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
4-Methylphenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Acenaphthene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Acenaphthylene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Acetophenone	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Anthracene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Atrazine	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Benz(a)anthracene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Benzaldehyde	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Benzo(a)pyrene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Bis(2-chloroethoxy)methane	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Bis(2-chloroethyl)ether	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Bis(2-chloroisopropyl)ether	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Bis(2-ethylhexyl)phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Butyl benzyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Caprolactam	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-51-7-6-9
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 11:34:00 AM
Lab ID: 1611D75-041	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Chrysene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Di-n-butyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Di-n-octyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Dibenzofuran	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Diethyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Dimethyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Fluoranthene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Fluorene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Hexachlorobenzene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Hexachlorobutadiene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Hexachlorocyclopentadiene	BRL	790		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Hexachloroethane	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Isophorone	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
N-Nitrosodi-n-propylamine	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
N-Nitrosodiphenylamine	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Naphthalene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Nitrobenzene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Phenanthrene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Phenol	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Pyrene	BRL	390		ug/Kg-dry	233173	1	11/21/2016 15:57	YH
Surr: 2,4,6-Tribromophenol	67.4	42.4-130		%REC	233173	1	11/21/2016 15:57	YH
Surr: 2-Fluorobiphenyl	65.5	51.5-120		%REC	233173	1	11/21/2016 15:57	YH
Surr: 2-Fluorophenol	57.6	41.1-120		%REC	233173	1	11/21/2016 15:57	YH
Surr: 4-Terphenyl-d14	75.7	52.7-117		%REC	233173	1	11/21/2016 15:57	YH
Surr: Nitrobenzene-d5	55.7	41.4-120		%REC	233173	1	11/21/2016 15:57	YH
Surr: Phenol-d5	61.4	47.6-120		%REC	233173	1	11/21/2016 15:57	YH

PERCENT MOISTURE D2216

Percent Moisture	16.1	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-36-5-2-3.5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 1:50:00 PM
Lab ID: 1611D75-042	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.110		mg/Kg-dry	232973	1	11/16/2016 16:05	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	4.79		mg/Kg-dry	233240	1	11/21/2016 14:39	IO
Barium	22.1	4.79		mg/Kg-dry	233240	1	11/21/2016 14:39	IO
Cadmium	BRL	2.39		mg/Kg-dry	233240	1	11/21/2016 14:39	IO
Chromium	7.07	2.39		mg/Kg-dry	233240	1	11/21/2016 14:39	IO
Copper	BRL	2.39		mg/Kg-dry	233240	1	11/21/2016 14:39	IO
Lead	6.77	4.79		mg/Kg-dry	233240	1	11/21/2016 14:39	IO
Selenium	BRL	4.79		mg/Kg-dry	233240	1	11/21/2016 14:39	IO
Silver	BRL	2.39		mg/Kg-dry	233240	1	11/21/2016 14:39	IO
PERCENT MOISTURE D2216								
Percent Moisture	10.3	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-36-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 1:50:00 PM
Lab ID: 1611D75-043	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A				(SW7470A)				
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 14:06	JR
METALS, TOTAL SW6010D				(SW3010A)				
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:15	IO
Barium	0.0421	0.0200		mg/L	233332	1	11/20/2016 22:15	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:15	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 22:15	IO
Copper	BRL	0.0100		mg/L	233332	1	11/20/2016 22:15	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:15	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:15	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:15	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-27-2.4-3.7
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 2:25:00 PM
Lab ID: 1611D75-044	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,1-Dichloroethene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
2-Butanone	BRL	31		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
2-Hexanone	BRL	6.2		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
4-Methyl-2-pentanone	BRL	6.2		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Acetone	BRL	62		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Benzene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Bromodichloromethane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Bromoform	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Bromomethane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Carbon disulfide	BRL	6.2		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Chlorobenzene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Chloroethane	BRL	6.2		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Chloroform	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Chloromethane	BRL	6.2		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
cis-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Cyclohexane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Dibromochloromethane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Dichlorodifluoromethane	BRL	6.2		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Ethylbenzene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Freon-113	BRL	6.2		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Isopropylbenzene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
m,p-Xylene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Methyl acetate	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Methylcyclohexane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Methylene chloride	BRL	12		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
o-Xylene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-27-2.4-3.7
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 2:25:00 PM
Lab ID: 1611D75-044	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Tetrachloroethene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Toluene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Trichloroethene	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Vinyl chloride	BRL	6.2		ug/Kg-dry	233202	1	11/18/2016 02:45	MD
Surr: 4-Bromofluorobenzene	92.1	70-128		%REC	233202	1	11/18/2016 02:45	MD
Surr: Dibromofluoromethane	106	78.2-128		%REC	233202	1	11/18/2016 02:45	MD
Surr: Toluene-d8	95.6	76.5-116		%REC	233202	1	11/18/2016 02:45	MD
PERCENT MOISTURE D2216								
Percent Moisture	12.1	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-36-6-2-3.5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 2:50:00 PM
Lab ID: 1611D75-045	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.122		mg/Kg-dry	232973	1	11/16/2016 16:07	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	3.55		mg/Kg-dry	233240	1	11/21/2016 14:42	IO
Barium	14.8	3.55		mg/Kg-dry	233240	1	11/21/2016 14:42	IO
Cadmium	BRL	1.77		mg/Kg-dry	233240	1	11/21/2016 14:42	IO
Chromium	4.75	1.77		mg/Kg-dry	233240	1	11/21/2016 14:42	IO
Copper	BRL	1.77		mg/Kg-dry	233240	1	11/21/2016 14:42	IO
Lead	4.91	3.55		mg/Kg-dry	233240	1	11/21/2016 14:42	IO
Selenium	BRL	3.55		mg/Kg-dry	233240	1	11/21/2016 14:42	IO
Silver	BRL	1.77		mg/Kg-dry	233240	1	11/21/2016 14:42	IO
PERCENT MOISTURE D2216								
Percent Moisture	19.5	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-36-6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 2:50:00 PM
Lab ID: 1611D75-046	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					(SW7470A)			
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 14:08	JR
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:19	IO
Barium	0.0452	0.0200		mg/L	233332	1	11/20/2016 22:19	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:19	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 22:19	IO
Copper	BRL	0.0100		mg/L	233332	1	11/20/2016 22:19	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:19	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:19	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:19	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-36-1-2.5-3.5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 3:15:00 PM
Lab ID: 1611D75-047	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.111		mg/Kg-dry	232973	1	11/16/2016 16:09	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	4.44		mg/Kg-dry	233240	1	11/21/2016 14:53	IO
Barium	24.1	4.44		mg/Kg-dry	233240	1	11/21/2016 14:53	IO
Cadmium	BRL	2.22		mg/Kg-dry	233240	1	11/21/2016 14:53	IO
Chromium	7.67	2.22		mg/Kg-dry	233240	1	11/21/2016 14:53	IO
Copper	BRL	2.22		mg/Kg-dry	233240	1	11/21/2016 14:53	IO
Lead	4.87	4.44		mg/Kg-dry	233240	1	11/21/2016 14:53	IO
Selenium	BRL	4.44		mg/Kg-dry	233240	1	11/21/2016 14:53	IO
Silver	BRL	2.22		mg/Kg-dry	233240	1	11/21/2016 14:53	IO
PERCENT MOISTURE D2216								
Percent Moisture	10.9	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-DUP-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016
Lab ID: 1611D75-048	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.117		mg/Kg-dry	232973	1	11/16/2016 16:11	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	4.57		mg/Kg-dry	233240	1	11/21/2016 14:59	IO
Barium	20.4	4.57		mg/Kg-dry	233240	1	11/21/2016 14:59	IO
Cadmium	BRL	2.29		mg/Kg-dry	233240	1	11/21/2016 14:59	IO
Chromium	9.26	2.29		mg/Kg-dry	233240	1	11/21/2016 14:59	IO
Copper	BRL	2.29		mg/Kg-dry	233240	1	11/21/2016 14:59	IO
Lead	5.41	4.57		mg/Kg-dry	233240	1	11/21/2016 14:59	IO
Selenium	BRL	4.57		mg/Kg-dry	233240	1	11/21/2016 14:59	IO
Silver	BRL	2.29		mg/Kg-dry	233240	1	11/21/2016 14:59	IO
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-DUP-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016
Lab ID: 1611D75-049	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D			(SW3550C)					
1,1'-Biphenyl	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2,4,5-Trichlorophenol	BRL	1900		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2,4,6-Trichlorophenol	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2,4-Dichlorophenol	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2,4-Dimethylphenol	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2,4-Dinitrophenol	BRL	1900		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2,4-Dinitrotoluene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2,6-Dinitrotoluene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2-Chloronaphthalene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2-Chlorophenol	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2-Methylnaphthalene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2-Methylphenol	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2-Nitroaniline	BRL	1900		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
2-Nitrophenol	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
3,3'-Dichlorobenzidine	BRL	760		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
3-Nitroaniline	BRL	1900		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
4,6-Dinitro-2-methylphenol	BRL	1900		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
4-Bromophenyl phenyl ether	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
4-Chloro-3-methylphenol	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
4-Chloroaniline	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
4-Chlorophenyl phenyl ether	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
4-Methylphenol	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
4-Nitroaniline	BRL	1900		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
4-Nitrophenol	BRL	1900		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Acenaphthene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Acenaphthylene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Acetophenone	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Anthracene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Atrazine	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Benz(a)anthracene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Benzaldehyde	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Benzo(a)pyrene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Benzo(b)fluoranthene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Benzo(g,h,i)perylene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Benzo(k)fluoranthene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Bis(2-chloroethoxy)methane	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Bis(2-chloroethyl)ether	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Bis(2-chloroisopropyl)ether	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Bis(2-ethylhexyl)phthalate	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Butyl benzyl phthalate	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Caprolactam	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-DUP-3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016
Lab ID: 1611D75-049	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Chrysene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Di-n-butyl phthalate	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Di-n-octyl phthalate	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Dibenz(a,h)anthracene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Dibenzofuran	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Diethyl phthalate	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Dimethyl phthalate	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Fluoranthene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Fluorene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Hexachlorobenzene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Hexachlorobutadiene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Hexachlorocyclopentadiene	BRL	750		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Hexachloroethane	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Indeno(1,2,3-cd)pyrene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Isophorone	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
N-Nitrosodi-n-propylamine	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
N-Nitrosodiphenylamine	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Naphthalene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Nitrobenzene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Pentachlorophenol	BRL	1900		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Phenanthrene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Phenol	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Pyrene	BRL	370		ug/Kg-dry	233173	1	11/21/2016 16:25	YH
Surr: 2,4,6-Tribromophenol	75.1	42.4-130		%REC	233173	1	11/21/2016 16:25	YH
Surr: 2-Fluorobiphenyl	80.5	51.5-120		%REC	233173	1	11/21/2016 16:25	YH
Surr: 2-Fluorophenol	67	41.1-120		%REC	233173	1	11/21/2016 16:25	YH
Surr: 4-Terphenyl-d14	86.7	52.7-117		%REC	233173	1	11/21/2016 16:25	YH
Surr: Nitrobenzene-d5	69	41.4-120		%REC	233173	1	11/21/2016 16:25	YH
Surr: Phenol-d5	69.4	47.6-120		%REC	233173	1	11/21/2016 16:25	YH

PERCENT MOISTURE D2216

Percent Moisture	11.9	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-DUP-4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016
Lab ID: 1611D75-050	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D		(SW3550C)						
1,1'-Biphenyl	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2,4,5-Trichlorophenol	BRL	2200		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2,4,6-Trichlorophenol	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2,4-Dichlorophenol	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2,4-Dimethylphenol	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2,4-Dinitrophenol	BRL	2200		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2,4-Dinitrotoluene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2,6-Dinitrotoluene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2-Chloronaphthalene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2-Chlorophenol	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2-Methylnaphthalene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2-Methylphenol	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2-Nitroaniline	BRL	2200		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
2-Nitrophenol	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
3,3'-Dichlorobenzidine	BRL	850		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
3-Nitroaniline	BRL	2200		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
4,6-Dinitro-2-methylphenol	BRL	2200		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
4-Bromophenyl phenyl ether	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
4-Chloro-3-methylphenol	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
4-Chloroaniline	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
4-Chlorophenyl phenyl ether	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
4-Methylphenol	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
4-Nitroaniline	BRL	2200		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
4-Nitrophenol	BRL	2200		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Acenaphthene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Acenaphthylene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Acetophenone	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Anthracene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Atrazine	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Benz(a)anthracene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Benzaldehyde	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Benzo(a)pyrene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Benzo(b)fluoranthene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Benzo(g,h,i)perylene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Benzo(k)fluoranthene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Bis(2-chloroethoxy)methane	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Bis(2-chloroethyl)ether	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Bis(2-chloroisopropyl)ether	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Bis(2-ethylhexyl)phthalate	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Butyl benzyl phthalate	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Caprolactam	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	SB-DUP-4
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/14/2016
Lab ID:	1611D75-050	Matrix:	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Chrysene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Di-n-butyl phthalate	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Di-n-octyl phthalate	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Dibenz(a,h)anthracene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Dibenzofuran	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Diethyl phthalate	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Dimethyl phthalate	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Fluoranthene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Fluorene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Hexachlorobenzene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Hexachlorobutadiene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Hexachlorocyclopentadiene	BRL	830		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Hexachloroethane	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Indeno(1,2,3-cd)pyrene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Isophorone	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
N-Nitrosodi-n-propylamine	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
N-Nitrosodiphenylamine	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Naphthalene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Nitrobenzene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Pentachlorophenol	BRL	2200		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Phenanthrene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Phenol	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Pyrene	BRL	420		ug/Kg-dry	233173	1	11/21/2016 16:54	YH
Surr: 2,4,6-Tribromophenol	69.6	42.4-130		%REC	233173	1	11/21/2016 16:54	YH
Surr: 2-Fluorobiphenyl	66.8	51.5-120		%REC	233173	1	11/21/2016 16:54	YH
Surr: 2-Fluorophenol	62.2	41.1-120		%REC	233173	1	11/21/2016 16:54	YH
Surr: 4-Terphenyl-d14	81	52.7-117		%REC	233173	1	11/21/2016 16:54	YH
Surr: Nitrobenzene-d5	56	41.4-120		%REC	233173	1	11/21/2016 16:54	YH
Surr: Phenol-d5	65.1	47.6-120		%REC	233173	1	11/21/2016 16:54	YH
PERCENT MOISTURE D2216								
Percent Moisture	20.9	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	SB-DUP-5
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/14/2016
Lab ID:	1611D75-051	Matrix:	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D (SW3550C)								
1,1'-Biphenyl	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2,4,6-Trichlorophenol	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2,4-Dichlorophenol	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2,4-Dimethylphenol	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2,4-Dinitrotoluene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2,6-Dinitrotoluene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2-Chloronaphthalene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2-Chlorophenol	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2-Methylnaphthalene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2-Methylphenol	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
2-Nitrophenol	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
3,3'-Dichlorobenzidine	BRL	790		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
4-Bromophenyl phenyl ether	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
4-Chloro-3-methylphenol	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
4-Chloroaniline	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
4-Chlorophenyl phenyl ether	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
4-Methylphenol	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Acenaphthene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Acenaphthylene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Acetophenone	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Anthracene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Atrazine	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Benz(a)anthracene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Benzaldehyde	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Benzo(a)pyrene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Bis(2-chloroethoxy)methane	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Bis(2-chloroethyl)ether	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Bis(2-chloroisopropyl)ether	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Bis(2-ethylhexyl)phthalate	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Butyl benzyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Caprolactam	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-DUP-5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016
Lab ID: 1611D75-051	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D					(SW3550C)			
Carbazole	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Chrysene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Di-n-butyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Di-n-octyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Dibenzofuran	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Diethyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Dimethyl phthalate	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Fluoranthene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Fluorene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Hexachlorobenzene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Hexachlorobutadiene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Hexachlorocyclopentadiene	BRL	780		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Hexachloroethane	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Isophorone	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
N-Nitrosodi-n-propylamine	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
N-Nitrosodiphenylamine	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Naphthalene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Nitrobenzene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Phenanthrene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Phenol	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Pyrene	BRL	390		ug/Kg-dry	233173	1	11/18/2016 17:55	YH
Surr: 2,4,6-Tribromophenol	76.4	42.4-130		%REC	233173	1	11/18/2016 17:55	YH
Surr: 2-Fluorobiphenyl	76.7	51.5-120		%REC	233173	1	11/18/2016 17:55	YH
Surr: 2-Fluorophenol	73.5	41.1-120		%REC	233173	1	11/18/2016 17:55	YH
Surr: 4-Terphenyl-d14	83.2	52.7-117		%REC	233173	1	11/18/2016 17:55	YH
Surr: Nitrobenzene-d5	70.8	41.4-120		%REC	233173	1	11/18/2016 17:55	YH
Surr: Phenol-d5	74.1	47.6-120		%REC	233173	1	11/18/2016 17:55	YH

PERCENT MOISTURE D2216

Percent Moisture	15.4	0		wt%	R330395	1	11/21/2016 09:00	BD
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-36-2-
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 3:40:00 PM
Lab ID: 1611D75-052	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.120		mg/Kg-dry	232973	1	11/16/2016 16:13	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	4.60		mg/Kg-dry	233240	1	11/21/2016 15:02	IO
Barium	34.0	4.60		mg/Kg-dry	233240	1	11/21/2016 15:02	IO
Cadmium	BRL	2.30		mg/Kg-dry	233240	1	11/21/2016 15:02	IO
Chromium	12.4	2.30		mg/Kg-dry	233240	1	11/21/2016 15:02	IO
Copper	2.95	2.30		mg/Kg-dry	233240	1	11/21/2016 15:02	IO
Lead	7.59	4.60		mg/Kg-dry	233240	1	11/21/2016 15:02	IO
Selenium	BRL	4.60		mg/Kg-dry	233240	1	11/21/2016 15:02	IO
Silver	BRL	2.30		mg/Kg-dry	233240	1	11/21/2016 15:02	IO
PERCENT MOISTURE D2216								
Percent Moisture	17.9	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-36-2-
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 3:40:00 PM
Lab ID: 1611D75-053	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A				(SW7470A)				
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 14:10	JR
METALS, TOTAL SW6010D				(SW3010A)				
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:23	IO
Barium	0.0792	0.0200		mg/L	233332	1	11/20/2016 22:23	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:23	IO
Chromium	0.0317	0.0100		mg/L	233332	1	11/20/2016 22:23	IO
Copper	BRL	0.0100		mg/L	233332	1	11/20/2016 22:23	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:23	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:23	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:23	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-DUP-2-
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016
Lab ID: 1611D75-054	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B								
					(SW7471B)			
Mercury	BRL	0.117		mg/Kg-dry	232973	1	11/16/2016 16:16	JR
METALS, TOTAL SW6010D								
					(SW3050B)			
Arsenic	BRL	3.81		mg/Kg-dry	233240	1	11/21/2016 15:06	IO
Barium	68.2	3.81		mg/Kg-dry	233240	1	11/21/2016 15:06	IO
Cadmium	BRL	1.90		mg/Kg-dry	233240	1	11/21/2016 15:06	IO
Chromium	16.2	1.90		mg/Kg-dry	233240	1	11/21/2016 15:06	IO
Copper	3.06	1.90		mg/Kg-dry	233240	1	11/21/2016 15:06	IO
Lead	11.9	3.81		mg/Kg-dry	233240	1	11/21/2016 15:06	IO
Selenium	BRL	3.81		mg/Kg-dry	233240	1	11/21/2016 15:06	IO
Silver	BRL	1.90		mg/Kg-dry	233240	1	11/21/2016 15:06	IO
PERCENT MOISTURE D2216								
Percent Moisture	20.5	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-DUP-2-
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016
Lab ID: 1611D75-055	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					(SW7470A)			
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 14:12	JR
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:27	IO
Barium	0.0989	0.0200		mg/L	233332	1	11/20/2016 22:27	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:27	IO
Chromium	0.0661	0.0100		mg/L	233332	1	11/20/2016 22:27	IO
Copper	0.0157	0.0100		mg/L	233332	1	11/20/2016 22:27	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:27	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:27	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:27	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-36-3-2.6-3.6
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 4:15:00 PM
Lab ID: 1611D75-056	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.113		mg/Kg-dry	232973	1	11/16/2016 16:18	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	15.7	4.66		mg/Kg-dry	233240	1	11/21/2016 15:10	IO
Barium	194	4.66		mg/Kg-dry	233240	1	11/21/2016 15:10	IO
Cadmium	BRL	2.33		mg/Kg-dry	233240	1	11/21/2016 15:10	IO
Chromium	13.5	2.33		mg/Kg-dry	233240	1	11/21/2016 15:10	IO
Copper	15.8	2.33		mg/Kg-dry	233240	1	11/21/2016 15:10	IO
Lead	7.86	4.66		mg/Kg-dry	233240	1	11/21/2016 15:10	IO
Selenium	BRL	4.66		mg/Kg-dry	233240	1	11/21/2016 15:10	IO
Silver	BRL	2.33		mg/Kg-dry	233240	1	11/21/2016 15:10	IO
PERCENT MOISTURE D2216								
Percent Moisture	21.1	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-36-4-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 4:45:00 PM
Lab ID: 1611D75-057	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.109		mg/Kg-dry	232973	1	11/16/2016 16:25	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	5.02		mg/Kg-dry	233240	1	11/21/2016 15:14	IO
Barium	23.7	5.02		mg/Kg-dry	233240	1	11/21/2016 15:14	IO
Cadmium	BRL	2.51		mg/Kg-dry	233240	1	11/21/2016 15:14	IO
Chromium	8.30	2.51		mg/Kg-dry	233240	1	11/21/2016 15:14	IO
Copper	27.3	2.51		mg/Kg-dry	233240	1	11/21/2016 15:14	IO
Lead	11.1	5.02		mg/Kg-dry	233240	1	11/21/2016 15:14	IO
Selenium	BRL	5.02		mg/Kg-dry	233240	1	11/21/2016 15:14	IO
Silver	BRL	2.51		mg/Kg-dry	233240	1	11/21/2016 15:14	IO
PERCENT MOISTURE D2216								
Percent Moisture	14.5	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: GW-36-4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 4:45:00 PM
Lab ID: 1611D75-058	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					(SW7470A)			
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 14:14	JR
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:30	IO
Barium	0.0900	0.0200		mg/L	233332	1	11/20/2016 22:30	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:30	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 22:30	IO
Copper	BRL	0.0100		mg/L	233332	1	11/20/2016 22:30	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:30	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:30	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:30	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: SB-36-9-0-1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 5:10:00 PM
Lab ID: 1611D75-059	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.0972		mg/Kg-dry	232973	1	11/16/2016 16:27	JR
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	7.86	4.02		mg/Kg-dry	233240	1	11/21/2016 15:18	IO
Barium	58.9	4.02		mg/Kg-dry	233240	1	11/21/2016 15:18	IO
Cadmium	BRL	2.01		mg/Kg-dry	233240	1	11/21/2016 15:18	IO
Chromium	6.93	2.01		mg/Kg-dry	233240	1	11/21/2016 15:18	IO
Copper	9.70	2.01		mg/Kg-dry	233240	1	11/21/2016 15:18	IO
Lead	51.2	4.02		mg/Kg-dry	233240	1	11/21/2016 15:18	IO
Selenium	BRL	4.02		mg/Kg-dry	233240	1	11/21/2016 15:18	IO
Silver	BRL	2.01		mg/Kg-dry	233240	1	11/21/2016 15:18	IO
PERCENT MOISTURE D2216								
Percent Moisture	6.44	0		wt%	R330395	1	11/21/2016 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Resolute Env. & Water Resources Consulting, LLC	Client Sample ID:	FB-4
Project Name:	Troutman Sanders Plant Kraft	Collection Date:	11/14/2016 6:00:00 PM
Lab ID:	1611D75-060	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,1-Dichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,1-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,2-Dibromoethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,2-Dichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,2-Dichloropropane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
2-Butanone	BRL	50		ug/L	233054	1	11/21/2016 12:49	BN
2-Hexanone	BRL	10		ug/L	233054	1	11/21/2016 12:49	BN
4-Methyl-2-pentanone	BRL	10		ug/L	233054	1	11/21/2016 12:49	BN
Acetone	BRL	50		ug/L	233054	1	11/21/2016 12:49	BN
Benzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Bromodichloromethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Bromoform	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Bromomethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Carbon disulfide	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Carbon tetrachloride	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Chlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Chloroethane	BRL	10		ug/L	233054	1	11/21/2016 12:49	BN
Chloroform	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Chloromethane	BRL	10		ug/L	233054	1	11/21/2016 12:49	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Cyclohexane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Dibromochloromethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Dichlorodifluoromethane	BRL	10		ug/L	233054	1	11/21/2016 12:49	BN
Ethylbenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Freon-113	BRL	10		ug/L	233054	1	11/21/2016 12:49	BN
Isopropylbenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
m,p-Xylene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Methyl acetate	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Methylcyclohexane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Methylene chloride	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
o-Xylene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 6:00:00 PM
Lab ID: 1611D75-060	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Tetrachloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Toluene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Trichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Trichlorofluoromethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:49	BN
Vinyl chloride	BRL	2.0		ug/L	233054	1	11/21/2016 12:49	BN
Surr: 4-Bromofluorobenzene	85	66.1-129		%REC	233054	1	11/21/2016 12:49	BN
Surr: Dibromofluoromethane	96.8	83.6-123		%REC	233054	1	11/21/2016 12:49	BN
Surr: Toluene-d8	88.6	81.8-118		%REC	233054	1	11/21/2016 12:49	BN
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 14:20	JR
GASOLINE RANGE ORGANICS SW8015C			(SW5030B)					
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/18/2016 06:57	JE
Surr: a.a.a-trifluorotoluene	106	75.1-120		%REC	233054	1	11/18/2016 06:57	JE
DIESEL RANGE ORGANICS SW8015C			(SW3510C)					
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/17/2016 21:08	RF
Surr: Dioctylphthalate	67.2	47-119		%REC	233098	1	11/17/2016 21:08	RF
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF

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- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: FB-4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 6:00:00 PM
Lab ID: 1611D75-060	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 17:13	RF
Surr: Nitrobenzene-d5	48.4	56.9-120	S	%REC	233025	1	11/22/2016 17:13	RF
Surr: 2-Fluorobiphenyl	53.7	55.6-120	S	%REC	233025	1	11/22/2016 17:13	RF
Surr: 4-Terphenyl-d14	79.1	45.7-120		%REC	233025	1	11/22/2016 17:13	RF
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:41	IO
Barium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:41	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:41	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 22:41	IO
Copper	BRL	0.0100		mg/L	233332	1	11/20/2016 22:41	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:41	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:41	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:41	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 6:10:00 PM
Lab ID: 1611D75-061	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,1-Dichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,1-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,2-Dibromoethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,2-Dichloroethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,2-Dichloropropane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
2-Butanone	BRL	50		ug/L	233054	1	11/21/2016 12:20	BN
2-Hexanone	BRL	10		ug/L	233054	1	11/21/2016 12:20	BN
4-Methyl-2-pentanone	BRL	10		ug/L	233054	1	11/21/2016 12:20	BN
Acetone	BRL	50		ug/L	233054	1	11/21/2016 12:20	BN
Benzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Bromodichloromethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Bromoform	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Bromomethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Carbon disulfide	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Carbon tetrachloride	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Chlorobenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Chloroethane	BRL	10		ug/L	233054	1	11/21/2016 12:20	BN
Chloroform	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Chloromethane	BRL	10		ug/L	233054	1	11/21/2016 12:20	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Cyclohexane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Dibromochloromethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Dichlorodifluoromethane	BRL	10		ug/L	233054	1	11/21/2016 12:20	BN
Ethylbenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Freon-113	BRL	10		ug/L	233054	1	11/21/2016 12:20	BN
Isopropylbenzene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
m,p-Xylene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Methyl acetate	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Methylcyclohexane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Methylene chloride	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
o-Xylene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 6:10:00 PM
Lab ID: 1611D75-061	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Tetrachloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Toluene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Trichloroethene	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Trichlorofluoromethane	BRL	5.0		ug/L	233054	1	11/21/2016 12:20	BN
Vinyl chloride	BRL	2.0		ug/L	233054	1	11/21/2016 12:20	BN
Surr: 4-Bromofluorobenzene	81.8	66.1-129		%REC	233054	1	11/21/2016 12:20	BN
Surr: Dibromofluoromethane	91.4	83.6-123		%REC	233054	1	11/21/2016 12:20	BN
Surr: Toluene-d8	95.9	81.8-118		%REC	233054	1	11/21/2016 12:20	BN
Mercury, Total SW7470A			(SW7470A)					
Mercury	BRL	0.00020		mg/L	233182	1	11/18/2016 14:22	JR
GASOLINE RANGE ORGANICS SW8015C			(SW5030B)					
TPH (Gasoline Range Organics)	BRL	0.50		mg/L	233054	1	11/18/2016 07:26	JE
Surr: a.a.a-trifluorotoluene	107	75.1-120		%REC	233054	1	11/18/2016 07:26	JE
DIESEL RANGE ORGANICS SW8015C			(SW3510C)					
Diesel Range Organics	BRL	0.20		mg/L	233098	1	11/17/2016 21:31	RF
Surr: Dioctylphthalate	73.4	47-119		%REC	233098	1	11/17/2016 21:31	RF
POLYAROMATIC HYDROCARBONS SW8270D			(SW3510C)					
Naphthalene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Acenaphthylene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
1-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
2-Methylnaphthalene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Acenaphthene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Fluorene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Phenanthrene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Anthracene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Pyrene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Benz(a)anthracene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Chrysene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Benzo(b)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Benzo(k)fluoranthene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Benzo(a)pyrene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Dibenz(a,h)anthracene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Benzo(g,h,i)perylene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: RB-4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/14/2016 6:10:00 PM
Lab ID: 1611D75-061	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3510C)			
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	233025	1	11/22/2016 17:41	RF
Surr: Nitrobenzene-d5	35.9	56.9-120	S	%REC	233025	1	11/22/2016 17:41	RF
Surr: 2-Fluorobiphenyl	36.2	55.6-120	S	%REC	233025	1	11/22/2016 17:41	RF
Surr: 4-Terphenyl-d14	47.6	45.7-120		%REC	233025	1	11/22/2016 17:41	RF
METALS, TOTAL SW6010D					(SW3010A)			
Arsenic	BRL	0.0500		mg/L	233332	1	11/20/2016 22:44	IO
Barium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:44	IO
Cadmium	BRL	0.0050		mg/L	233332	1	11/20/2016 22:44	IO
Chromium	BRL	0.0100		mg/L	233332	1	11/20/2016 22:44	IO
Copper	BRL	0.0100		mg/L	233332	1	11/20/2016 22:44	IO
Lead	BRL	0.0100		mg/L	233332	1	11/20/2016 22:44	IO
Selenium	BRL	0.0200		mg/L	233332	1	11/20/2016 22:44	IO
Silver	BRL	0.0100		mg/L	233332	1	11/20/2016 22:44	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK #1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016
Lab ID: 1611D75-062	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
2-Butanone	BRL	50		ug/L	233243	1	11/18/2016 14:16	NP
2-Hexanone	BRL	10		ug/L	233243	1	11/18/2016 14:16	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233243	1	11/18/2016 14:16	NP
Acetone	BRL	50		ug/L	233243	1	11/18/2016 14:16	NP
Benzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Bromodichloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Bromoform	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Bromomethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Carbon disulfide	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Carbon tetrachloride	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Chlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Chloroethane	BRL	10		ug/L	233243	1	11/18/2016 14:16	NP
Chloroform	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Chloromethane	BRL	10		ug/L	233243	1	11/18/2016 14:16	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Cyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Dibromochloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Dichlorodifluoromethane	BRL	10		ug/L	233243	1	11/18/2016 14:16	NP
Ethylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Freon-113	BRL	10		ug/L	233243	1	11/18/2016 14:16	NP
Isopropylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
m,p-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Methyl acetate	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Methylcyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Methylene chloride	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
o-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK #1
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016
Lab ID: 1611D75-062	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Tetrachloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Toluene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Trichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:16	NP
Vinyl chloride	BRL	2.0		ug/L	233243	1	11/18/2016 14:16	NP
Surr: 4-Bromofluorobenzene	91.4	66.1-129		%REC	233243	1	11/18/2016 14:16	NP
Surr: Dibromofluoromethane	102	83.6-123		%REC	233243	1	11/18/2016 14:16	NP
Surr: Toluene-d8	101	81.8-118		%REC	233243	1	11/18/2016 14:16	NP

Qualifiers:

- * Value exceeds maximum contaminant level
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK #3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016
Lab ID: 1611D75-064	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
2-Butanone	BRL	50		ug/L	233243	1	11/18/2016 14:40	NP
2-Hexanone	BRL	10		ug/L	233243	1	11/18/2016 14:40	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233243	1	11/18/2016 14:40	NP
Acetone	BRL	50		ug/L	233243	1	11/18/2016 14:40	NP
Benzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Bromodichloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Bromoform	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Bromomethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Carbon disulfide	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Carbon tetrachloride	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Chlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Chloroethane	BRL	10		ug/L	233243	1	11/18/2016 14:40	NP
Chloroform	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Chloromethane	BRL	10		ug/L	233243	1	11/18/2016 14:40	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Cyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Dibromochloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Dichlorodifluoromethane	BRL	10		ug/L	233243	1	11/18/2016 14:40	NP
Ethylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Freon-113	BRL	10		ug/L	233243	1	11/18/2016 14:40	NP
Isopropylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
m,p-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Methyl acetate	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Methylcyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Methylene chloride	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
o-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP

Qualifiers:

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- BRL Below reporting limit
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK #3
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016
Lab ID: 1611D75-064	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Tetrachloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Toluene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Trichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233243	1	11/18/2016 14:40	NP
Vinyl chloride	BRL	2.0		ug/L	233243	1	11/18/2016 14:40	NP
Surr: 4-Bromofluorobenzene	91	66.1-129		%REC	233243	1	11/18/2016 14:40	NP
Surr: Dibromofluoromethane	101	83.6-123		%REC	233243	1	11/18/2016 14:40	NP
Surr: Toluene-d8	100	81.8-118		%REC	233243	1	11/18/2016 14:40	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK #4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016
Lab ID: 1611D75-065	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
2-Butanone	BRL	50		ug/L	233243	1	11/18/2016 15:03	NP
2-Hexanone	BRL	10		ug/L	233243	1	11/18/2016 15:03	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233243	1	11/18/2016 15:03	NP
Acetone	BRL	50		ug/L	233243	1	11/18/2016 15:03	NP
Benzene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Bromodichloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Bromoform	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Bromomethane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Carbon disulfide	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Carbon tetrachloride	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Chlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Chloroethane	BRL	10		ug/L	233243	1	11/18/2016 15:03	NP
Chloroform	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Chloromethane	BRL	10		ug/L	233243	1	11/18/2016 15:03	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Cyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Dibromochloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Dichlorodifluoromethane	BRL	10		ug/L	233243	1	11/18/2016 15:03	NP
Ethylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Freon-113	BRL	10		ug/L	233243	1	11/18/2016 15:03	NP
Isopropylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
m,p-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Methyl acetate	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Methylcyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Methylene chloride	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
o-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-16

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK #4
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016
Lab ID: 1611D75-065	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Tetrachloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Toluene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Trichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233243	1	11/18/2016 15:03	NP
Vinyl chloride	BRL	2.0		ug/L	233243	1	11/18/2016 15:03	NP
Surr: 4-Bromofluorobenzene	90.3	66.1-129		%REC	233243	1	11/18/2016 15:03	NP
Surr: Dibromofluoromethane	103	83.6-123		%REC	233243	1	11/18/2016 15:03	NP
Surr: Toluene-d8	101	81.8-118		%REC	233243	1	11/18/2016 15:03	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK #5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016
Lab ID: 1611D75-066	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,1-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,1-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,2-Dibromoethane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,2-Dichloroethane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,2-Dichloropropane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
2-Butanone	BRL	50		ug/L	233243	1	11/18/2016 13:53	NP
2-Hexanone	BRL	10		ug/L	233243	1	11/18/2016 13:53	NP
4-Methyl-2-pentanone	BRL	10		ug/L	233243	1	11/18/2016 13:53	NP
Acetone	BRL	50		ug/L	233243	1	11/18/2016 13:53	NP
Benzene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Bromodichloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Bromoform	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Bromomethane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Carbon disulfide	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Carbon tetrachloride	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Chlorobenzene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Chloroethane	BRL	10		ug/L	233243	1	11/18/2016 13:53	NP
Chloroform	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Chloromethane	BRL	10		ug/L	233243	1	11/18/2016 13:53	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Cyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Dibromochloromethane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Dichlorodifluoromethane	BRL	10		ug/L	233243	1	11/18/2016 13:53	NP
Ethylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Freon-113	BRL	10		ug/L	233243	1	11/18/2016 13:53	NP
Isopropylbenzene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
m,p-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Methyl acetate	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Methylcyclohexane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Methylene chloride	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
o-Xylene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Resolute Env. & Water Resources Consulting, LLC	Client Sample ID: TRIP BLANK #5
Project Name: Troutman Sanders Plant Kraft	Collection Date: 11/15/2016
Lab ID: 1611D75-066	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Tetrachloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Toluene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Trichloroethene	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Trichlorofluoromethane	BRL	5.0		ug/L	233243	1	11/18/2016 13:53	NP
Vinyl chloride	BRL	2.0		ug/L	233243	1	11/18/2016 13:53	NP
Surr: 4-Bromofluorobenzene	90.3	66.1-129		%REC	233243	1	11/18/2016 13:53	NP
Surr: Dibromofluoromethane	101	83.6-123		%REC	233243	1	11/18/2016 13:53	NP
Surr: Toluene-d8	100	81.8-118		%REC	233243	1	11/18/2016 13:53	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
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- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Resolute

Work Order Number 1611D75

Checklist completed by Pars Masoudi 11/15/16
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 0.6° Cooler #2 0.7° Cooler #3 0.4° Cooler #4 0.1° Cooler #5 0.6° Cooler #6

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No *pm 11/15/16*

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? Checked by PM

Sample Condition: Good Other(Explain)

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Resolute Env. & Water Resources Consulting, LLC
 Project Name: Troutman Sanders Plant Kraft
 Lab Order: 1611D75

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611D75-001A	SB-1-0-1	11/12/2016 8:00:00AM	Soil	VOLATILE ORGANICS: BTEX		11/17/2016 3:05:00 PM	11/17/2016
1611D75-001A	SB-1-0-1	11/12/2016 8:00:00AM	Soil	GASOLINE RANGE ORGANICS		11/17/2016 3:05:00 PM	11/17/2016
1611D75-001B	SB-1-0-1	11/12/2016 8:00:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-002A	GW-1-0-1	11/12/2016 8:00:00AM	Groundwater	VOLATILE ORGANICS: BTEX		11/16/2016 6:01:00 AM	11/17/2016
1611D75-002A	GW-1-0-1	11/12/2016 8:00:00AM	Groundwater	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/17/2016
1611D75-003A	SB-31-2-1-2	11/12/2016 8:30:00AM	Soil	TCL VOLATILE ORGANICS		11/17/2016 5:55:00 PM	11/18/2016
1611D75-003B	SB-31-2-1-2	11/12/2016 8:30:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/17/2016 11:30:00 AM	11/21/2016
1611D75-003C	SB-31-2-1-2	11/12/2016 8:30:00AM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-003C	SB-31-2-1-2	11/12/2016 8:30:00AM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-003D	SB-31-2-1-2	11/12/2016 8:30:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-004A	GW-31-2	11/12/2016 8:30:00AM	Groundwater	TCL VOLATILE ORGANICS		11/18/2016 8:44:00 AM	11/18/2016
1611D75-004B	GW-31-2	11/12/2016 8:30:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-004C	GW-31-2	11/12/2016 8:30:00AM	Groundwater	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-004C	GW-31-2	11/12/2016 8:30:00AM	Groundwater	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-005A	SB-31-1-1-2	11/12/2016 9:15:00AM	Soil	TCL VOLATILE ORGANICS		11/17/2016 5:55:00 PM	11/18/2016
1611D75-005B	SB-31-1-1-2	11/12/2016 9:15:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/17/2016 11:30:00 AM	11/21/2016
1611D75-005C	SB-31-1-1-2	11/12/2016 9:15:00AM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-005C	SB-31-1-1-2	11/12/2016 9:15:00AM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-005D	SB-31-1-1-2	11/12/2016 9:15:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-006A	GW-31-1	11/12/2016 9:15:00AM	Groundwater	TCL VOLATILE ORGANICS		11/18/2016 8:44:00 AM	11/18/2016
1611D75-006B	GW-31-1	11/12/2016 9:15:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-006C	GW-31-1	11/12/2016 9:15:00AM	Groundwater	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-006C	GW-31-1	11/12/2016 9:15:00AM	Groundwater	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-007A	SB-4-2-3	11/12/2016 10:00:00AM	Soil	VOLATILE ORGANICS: BTEX		11/17/2016 3:05:00 PM	11/18/2016
1611D75-007A	SB-4-2-3	11/12/2016 10:00:00AM	Soil	GASOLINE RANGE ORGANICS		11/17/2016 3:05:00 PM	11/18/2016
1611D75-007B	SB-4-2-3	11/12/2016 10:00:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/17/2016 11:30:00 AM	11/21/2016
1611D75-007B	SB-4-2-3	11/12/2016 10:00:00AM	Soil	DIESEL RANGE ORGANICS		11/16/2016 10:00:00 AM	11/17/2016
1611D75-007C	SB-4-2-3	11/12/2016 10:00:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-008A	SB-5/12-2-3	11/12/2016 10:40:00AM	Soil	VOLATILE ORGANICS: BTEX		11/17/2016 3:05:00 PM	11/18/2016

Client: Resolute Env. & Water Resources Consulting, LLC
 Project Name: Troutman Sanders Plant Kraft
 Lab Order: 1611D75

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611D75-008A	SB-5/12-2-3	11/12/2016 10:40:00AM	Soil	GASOLINE RANGE ORGANICS		11/17/2016 3:05:00 PM	11/18/2016
1611D75-008B	SB-5/12-2-3	11/12/2016 10:40:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/18/2016 2:00:00 PM	11/18/2016
1611D75-008B	SB-5/12-2-3	11/12/2016 10:40:00AM	Soil	DIESEL RANGE ORGANICS		11/16/2016 10:00:00 AM	11/17/2016
1611D75-008C	SB-5/12-2-3	11/12/2016 10:40:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-008D	SB-5/12-2-3	11/12/2016 10:40:00AM	Soil	Laboratory Hydrogen Ion (pH)		11/21/2016 4:00:00 PM	11/22/2016
1611D75-009A	GW-5/12	11/12/2016 10:40:00AM	Groundwater	VOLATILE ORGANICS: BTEX		11/16/2016 6:01:00 AM	11/17/2016
1611D75-009A	GW-5/12	11/12/2016 10:40:00AM	Groundwater	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/17/2016
1611D75-009B	GW-5/12	11/12/2016 10:40:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-009B	GW-5/12	11/12/2016 10:40:00AM	Groundwater	DIESEL RANGE ORGANICS		11/17/2016 2:30:00 PM	11/17/2016
1611D75-009C	GW-5/12	11/12/2016 10:40:00AM	Groundwater	Laboratory Hydrogen Ion (pH)			11/21/2016
1611D75-010A	SB-17-0-2	11/12/2016 4:15:00PM	Soil	TCL VOLATILE ORGANICS		11/17/2016 5:55:00 PM	11/18/2016
1611D75-010B	SB-17-0-2	11/12/2016 4:15:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/18/2016 2:00:00 PM	11/22/2016
1611D75-010C	SB-17-0-2	11/12/2016 4:15:00PM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-010C	SB-17-0-2	11/12/2016 4:15:00PM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-010D	SB-17-0-2	11/12/2016 4:15:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-011A	GW-17	11/12/2016 4:15:00PM	Groundwater	TCL VOLATILE ORGANICS		11/18/2016 8:44:00 AM	11/18/2016
1611D75-011B	GW-17	11/12/2016 4:15:00PM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-011C	GW-17	11/12/2016 4:15:00PM	Groundwater	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-011C	GW-17	11/12/2016 4:15:00PM	Groundwater	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-012A	FB-2	11/12/2016 5:10:00PM	Aqueous	TCL VOLATILE ORGANICS		11/18/2016 8:44:00 AM	11/18/2016
1611D75-012A	FB-2	11/12/2016 5:10:00PM	Aqueous	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/17/2016
1611D75-012B	FB-2	11/12/2016 5:10:00PM	Aqueous	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-012B	FB-2	11/12/2016 5:10:00PM	Aqueous	DIESEL RANGE ORGANICS		11/17/2016 2:30:00 PM	11/17/2016
1611D75-012C	FB-2	11/12/2016 5:10:00PM	Aqueous	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-012C	FB-2	11/12/2016 5:10:00PM	Aqueous	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-013A	RB-2	11/12/2016 5:20:00PM	Aqueous	TCL VOLATILE ORGANICS		11/18/2016 8:44:00 AM	11/18/2016
1611D75-013A	RB-2	11/12/2016 5:20:00PM	Aqueous	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/17/2016
1611D75-013B	RB-2	11/12/2016 5:20:00PM	Aqueous	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-013B	RB-2	11/12/2016 5:20:00PM	Aqueous	DIESEL RANGE ORGANICS		11/17/2016 2:30:00 PM	11/17/2016

Client: Resolute Env. & Water Resources Consulting, LLC
 Project Name: Troutman Sanders Plant Kraft
 Lab Order: 1611D75

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611D75-013C	RB-2	11/12/2016 5:20:00PM	Aqueous	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-013C	RB-2	11/12/2016 5:20:00PM	Aqueous	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-014A	SB-10-0-1	11/13/2016 11:20:00AM	Soil	VOLATILE ORGANICS: BTEX		11/17/2016 3:05:00 PM	11/18/2016
1611D75-014A	SB-10-0-1	11/13/2016 11:20:00AM	Soil	GASOLINE RANGE ORGANICS		11/17/2016 3:05:00 PM	11/18/2016
1611D75-014B	SB-10-0-1	11/13/2016 11:20:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/18/2016 2:00:00 PM	11/22/2016
1611D75-014B	SB-10-0-1	11/13/2016 11:20:00AM	Soil	DIESEL RANGE ORGANICS		11/16/2016 10:00:00 AM	11/17/2016
1611D75-014C	SB-10-0-1	11/13/2016 11:20:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-015A	GW-10	11/13/2016 11:20:00AM	Groundwater	VOLATILE ORGANICS: BTEX		11/16/2016 6:01:00 AM	11/17/2016
1611D75-015A	GW-10	11/13/2016 11:20:00AM	Groundwater	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/17/2016
1611D75-015B	GW-10	11/13/2016 11:20:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-015B	GW-10	11/13/2016 11:20:00AM	Groundwater	DIESEL RANGE ORGANICS		11/17/2016 2:30:00 PM	11/17/2016
1611D75-016A	SB-8-0-1	11/13/2016 1:30:00PM	Soil	VOLATILE ORGANICS: BTEX		11/17/2016 3:05:00 PM	11/18/2016
1611D75-016A	SB-8-0-1	11/13/2016 1:30:00PM	Soil	GASOLINE RANGE ORGANICS		11/17/2016 3:05:00 PM	11/18/2016
1611D75-016B	SB-8-0-1	11/13/2016 1:30:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/18/2016 2:00:00 PM	11/22/2016
1611D75-016B	SB-8-0-1	11/13/2016 1:30:00PM	Soil	DIESEL RANGE ORGANICS		11/16/2016 10:00:00 AM	11/17/2016
1611D75-016C	SB-8-0-1	11/13/2016 1:30:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-017A	GW-8	11/13/2016 1:30:00PM	Groundwater	VOLATILE ORGANICS: BTEX		11/16/2016 6:01:00 AM	11/17/2016
1611D75-017A	GW-8	11/13/2016 1:30:00PM	Groundwater	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/17/2016
1611D75-017B	GW-8	11/13/2016 1:30:00PM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-017B	GW-8	11/13/2016 1:30:00PM	Groundwater	DIESEL RANGE ORGANICS		11/17/2016 2:30:00 PM	11/17/2016
1611D75-018A	SB-7-1-2	11/13/2016 2:10:00PM	Soil	VOLATILE ORGANICS: BTEX		11/17/2016 3:05:00 PM	11/18/2016
1611D75-018A	SB-7-1-2	11/13/2016 2:10:00PM	Soil	GASOLINE RANGE ORGANICS		11/17/2016 3:05:00 PM	11/18/2016
1611D75-018B	SB-7-1-2	11/13/2016 2:10:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/18/2016 2:00:00 PM	11/22/2016
1611D75-018B	SB-7-1-2	11/13/2016 2:10:00PM	Soil	DIESEL RANGE ORGANICS		11/16/2016 10:00:00 AM	11/17/2016
1611D75-018C	SB-7-1-2	11/13/2016 2:10:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-019A	SB-6-1-2	11/13/2016 3:55:00PM	Soil	VOLATILE ORGANICS: BTEX		11/17/2016 3:05:00 PM	11/18/2016
1611D75-019A	SB-6-1-2	11/13/2016 3:55:00PM	Soil	GASOLINE RANGE ORGANICS		11/17/2016 3:05:00 PM	11/18/2016
1611D75-019B	SB-6-1-2	11/13/2016 3:55:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/18/2016 2:00:00 PM	11/22/2016
1611D75-019B	SB-6-1-2	11/13/2016 3:55:00PM	Soil	DIESEL RANGE ORGANICS		11/16/2016 10:00:00 AM	11/17/2016

Client: Resolute Env. & Water Resources Consulting, LLC
 Project Name: Troutman Sanders Plant Kraft
 Lab Order: 1611D75

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611D75-019C	SB-6-1-2	11/13/2016 3:55:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-020A	SB-16-5-6	11/13/2016 4:45:00PM	Soil	TCL VOLATILE ORGANICS		11/17/2016 5:55:00 PM	11/18/2016
1611D75-020B	SB-16-5-6	11/13/2016 4:45:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCAF		11/18/2016 2:00:00 PM	11/22/2016
1611D75-020C	SB-16-5-6	11/13/2016 4:45:00PM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-020C	SB-16-5-6	11/13/2016 4:45:00PM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-020D	SB-16-5-6	11/13/2016 4:45:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-021A	GW-16-5-6	11/13/2016 4:45:00PM	Groundwater	TCL VOLATILE ORGANICS		11/18/2016 8:44:00 AM	11/18/2016
1611D75-021B	GW-16-5-6	11/13/2016 4:45:00PM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-021C	GW-16-5-6	11/13/2016 4:45:00PM	Groundwater	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-021C	GW-16-5-6	11/13/2016 4:45:00PM	Groundwater	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-022A	FB-3	11/13/2016 5:20:00PM	Aqueous	TCL VOLATILE ORGANICS		11/16/2016 6:01:00 AM	11/21/2016
1611D75-022A	FB-3	11/13/2016 5:20:00PM	Aqueous	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/17/2016
1611D75-022B	FB-3	11/13/2016 5:20:00PM	Aqueous	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-022B	FB-3	11/13/2016 5:20:00PM	Aqueous	DIESEL RANGE ORGANICS		11/17/2016 2:30:00 PM	11/17/2016
1611D75-022C	FB-3	11/13/2016 5:20:00PM	Aqueous	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-022C	FB-3	11/13/2016 5:20:00PM	Aqueous	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-023A	RB-3	11/13/2016 5:30:00PM	Aqueous	TCL VOLATILE ORGANICS		11/16/2016 6:01:00 AM	11/21/2016
1611D75-023A	RB-3	11/13/2016 5:30:00PM	Aqueous	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/17/2016
1611D75-023B	RB-3	11/13/2016 5:30:00PM	Aqueous	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-023B	RB-3	11/13/2016 5:30:00PM	Aqueous	DIESEL RANGE ORGANICS		11/17/2016 2:30:00 PM	11/17/2016
1611D75-023C	RB-3	11/13/2016 5:30:00PM	Aqueous	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-023C	RB-3	11/13/2016 5:30:00PM	Aqueous	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-024A	SB-51-1-0-2	11/14/2016 8:00:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/16/2016 10:00:00 AM	11/18/2016
1611D75-024A	SB-51-1-0-2	11/14/2016 8:00:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-025A	SB-51-1-2-6	11/14/2016 8:02:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/16/2016 10:00:00 AM	11/18/2016
1611D75-025A	SB-51-1-2-6	11/14/2016 8:02:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-026A	SB-51-2-0-2	11/14/2016 8:30:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/16/2016 10:00:00 AM	11/18/2016
1611D75-026A	SB-51-2-0-2	11/14/2016 8:30:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-027A	SB-51-2-2-6	11/14/2016 8:32:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/16/2016 10:00:00 AM	11/18/2016

Client: Resolute Env. & Water Resources Consulting, LLC
 Project Name: Troutman Sanders Plant Kraft
 Lab Order: 1611D75

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611D75-027A	SB-51-2-2-6	11/14/2016 8:32:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-028A	SB-51-3-0-2	11/14/2016 9:00:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/16/2016 10:00:00 AM	11/18/2016
1611D75-028A	SB-51-3-0-2	11/14/2016 9:00:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-029A	SB-51-3-2-6	11/14/2016 9:02:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/16/2016 10:00:00 AM	11/18/2016
1611D75-029A	SB-51-3-2-6	11/14/2016 9:02:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-030A	SB-51-4-0-2	11/14/2016 9:35:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/18/2016
1611D75-030A	SB-51-4-0-2	11/14/2016 9:35:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-031A	SB-51-4-2-6	11/14/2016 9:37:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/18/2016
1611D75-031A	SB-51-4-2-6	11/14/2016 9:37:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-032A	SB-51-4-6-10	11/14/2016 9:39:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/18/2016
1611D75-032A	SB-51-4-6-10	11/14/2016 9:39:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-033A	SB-51-5-0-2	11/14/2016 10:30:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/18/2016
1611D75-033A	SB-51-5-0-2	11/14/2016 10:30:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-034A	SB-51-5-2-6	11/14/2016 10:32:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/21/2016
1611D75-034A	SB-51-5-2-6	11/14/2016 10:32:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-035A	SB-51-5-6-8	11/14/2016 10:34:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/21/2016
1611D75-035A	SB-51-5-6-8	11/14/2016 10:34:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-036A	SB-51-6-0-2	11/14/2016 11:00:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/21/2016
1611D75-036A	SB-51-6-0-2	11/14/2016 11:00:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-037A	SB-51-6-2-6	11/14/2016 11:02:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/21/2016
1611D75-037A	SB-51-6-2-6	11/14/2016 11:02:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-038A	SB-51-6-6-8	11/14/2016 11:04:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/21/2016
1611D75-038A	SB-51-6-6-8	11/14/2016 11:04:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-039A	SB-51-7-0-2	11/14/2016 11:30:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/21/2016
1611D75-039A	SB-51-7-0-2	11/14/2016 11:30:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-040A	SB-51-7-2-6	11/14/2016 11:32:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/21/2016
1611D75-040A	SB-51-7-2-6	11/14/2016 11:32:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-041A	SB-51-7-6-9	11/14/2016 11:34:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/21/2016
1611D75-041A	SB-51-7-6-9	11/14/2016 11:34:00AM	Soil	PERCENT MOISTURE			11/21/2016

Client: Resolute Env. & Water Resources Consulting, LLC
 Project Name: Troutman Sanders Plant Kraft
 Lab Order: 1611D75

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611D75-042A	SB-36-5-2-3.5	11/14/2016 1:50:00PM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-042A	SB-36-5-2-3.5	11/14/2016 1:50:00PM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-042A	SB-36-5-2-3.5	11/14/2016 1:50:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-043A	GW-36-5	11/14/2016 1:50:00PM	Groundwater	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-043A	GW-36-5	11/14/2016 1:50:00PM	Groundwater	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-044A	SB-27-2.4-3.7	11/14/2016 2:25:00PM	Soil	TCL VOLATILE ORGANICS		11/17/2016 5:55:00 PM	11/18/2016
1611D75-044B	SB-27-2.4-3.7	11/14/2016 2:25:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-045A	SB-36-6-2-3.5	11/14/2016 2:50:00PM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-045A	SB-36-6-2-3.5	11/14/2016 2:50:00PM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-045A	SB-36-6-2-3.5	11/14/2016 2:50:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-046A	GW-36-6	11/14/2016 2:50:00PM	Groundwater	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-046A	GW-36-6	11/14/2016 2:50:00PM	Groundwater	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-047A	SB-36-1-2.5-3.5	11/14/2016 3:15:00PM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-047A	SB-36-1-2.5-3.5	11/14/2016 3:15:00PM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-047A	SB-36-1-2.5-3.5	11/14/2016 3:15:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-048A	SB-DUP-1	11/14/2016 12:00:00AM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-048A	SB-DUP-1	11/14/2016 12:00:00AM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-048A	SB-DUP-1	11/14/2016 12:00:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-049A	SB-DUP-3	11/14/2016 12:00:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/21/2016
1611D75-049A	SB-DUP-3	11/14/2016 12:00:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-050A	SB-DUP-4	11/14/2016 12:00:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/21/2016
1611D75-050A	SB-DUP-4	11/14/2016 12:00:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-051A	SB-DUP-5	11/14/2016 12:00:00AM	Soil	TCL-SEMIVOLATILE ORGANICS		11/17/2016 1:00:00 PM	11/18/2016
1611D75-051A	SB-DUP-5	11/14/2016 12:00:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-052A	SB-36-2-	11/14/2016 3:40:00PM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-052A	SB-36-2-	11/14/2016 3:40:00PM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-052A	SB-36-2-	11/14/2016 3:40:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-053A	GW-36-2-	11/14/2016 3:40:00PM	Groundwater	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-053A	GW-36-2-	11/14/2016 3:40:00PM	Groundwater	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016

Client: Resolute Env. & Water Resources Consulting, LLC
 Project Name: Troutman Sanders Plant Kraft
 Lab Order: 1611D75

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611D75-054A	SB-DUP-2-	11/14/2016 12:00:00AM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-054A	SB-DUP-2-	11/14/2016 12:00:00AM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-054A	SB-DUP-2-	11/14/2016 12:00:00AM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-055A	GW-DUP-2-	11/14/2016 12:00:00AM	Groundwater	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-055A	GW-DUP-2-	11/14/2016 12:00:00AM	Groundwater	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-056A	SB-36-3-2.6-3.6	11/14/2016 4:15:00PM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-056A	SB-36-3-2.6-3.6	11/14/2016 4:15:00PM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-056A	SB-36-3-2.6-3.6	11/14/2016 4:15:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-057A	SB-36-4-0-1	11/14/2016 4:45:00PM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-057A	SB-36-4-0-1	11/14/2016 4:45:00PM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-057A	SB-36-4-0-1	11/14/2016 4:45:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-058A	GW-36-4	11/14/2016 4:45:00PM	Groundwater	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-058A	GW-36-4	11/14/2016 4:45:00PM	Groundwater	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-059A	SB-36-9-0-1	11/14/2016 5:10:00PM	Soil	TOTAL METALS BY ICP		11/19/2016 10:30:00 AM	11/21/2016
1611D75-059A	SB-36-9-0-1	11/14/2016 5:10:00PM	Soil	MERCURY		11/16/2016 11:41:00 AM	11/16/2016
1611D75-059A	SB-36-9-0-1	11/14/2016 5:10:00PM	Soil	PERCENT MOISTURE			11/21/2016
1611D75-060A	FB-4	11/14/2016 6:00:00PM	Aqueous	TCL VOLATILE ORGANICS		11/16/2016 6:01:00 AM	11/21/2016
1611D75-060A	FB-4	11/14/2016 6:00:00PM	Aqueous	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/18/2016
1611D75-060B	FB-4	11/14/2016 6:00:00PM	Aqueous	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-060B	FB-4	11/14/2016 6:00:00PM	Aqueous	DIESEL RANGE ORGANICS		11/17/2016 2:30:00 PM	11/17/2016
1611D75-060C	FB-4	11/14/2016 6:00:00PM	Aqueous	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-060C	FB-4	11/14/2016 6:00:00PM	Aqueous	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-061A	RB-4	11/14/2016 6:10:00PM	Aqueous	TCL VOLATILE ORGANICS		11/16/2016 6:01:00 AM	11/21/2016
1611D75-061A	RB-4	11/14/2016 6:10:00PM	Aqueous	GASOLINE RANGE ORGANICS		11/16/2016 6:01:00 AM	11/18/2016
1611D75-061B	RB-4	11/14/2016 6:10:00PM	Aqueous	POLYNUCLEAR AROMATIC HYDROCAF		11/16/2016 12:50:17 PM	11/22/2016
1611D75-061B	RB-4	11/14/2016 6:10:00PM	Aqueous	DIESEL RANGE ORGANICS		11/17/2016 2:30:00 PM	11/17/2016
1611D75-061C	RB-4	11/14/2016 6:10:00PM	Aqueous	TOTAL METALS BY ICP		11/19/2016 11:15:00 AM	11/20/2016
1611D75-061C	RB-4	11/14/2016 6:10:00PM	Aqueous	TOTAL MERCURY		11/18/2016 10:26:00 AM	11/18/2016
1611D75-062A	TRIP BLANK #1	11/15/2016 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		11/18/2016 8:44:00 AM	11/18/2016

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Lab Order: 1611D75

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1611D75-064A	TRIP BLANK #3	11/15/2016 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		11/18/2016 8:44:00 AM	11/18/2016
1611D75-065A	TRIP BLANK #4	11/15/2016 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		11/18/2016 8:44:00 AM	11/18/2016
1611D75-066A	TRIP BLANK #5	11/15/2016 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		11/18/2016 8:44:00 AM	11/18/2016

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 232963

Sample ID: MB-232963	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 330004							
Sample Type: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 232963	Analysis Date: 11/17/2016	Seq No: 7175321							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1'-Biphenyl	BRL	330									
2,4,5-Trichlorophenol	BRL	1700									
2,4,6-Trichlorophenol	BRL	330									
2,4-Dichlorophenol	BRL	330									
2,4-Dimethylphenol	BRL	330									
2,4-Dinitrophenol	BRL	1700									
2,4-Dinitrotoluene	BRL	330									
2,6-Dinitrotoluene	BRL	330									
2-Chloronaphthalene	BRL	330									
2-Chlorophenol	BRL	330									
2-Methylnaphthalene	BRL	330									
2-Methylphenol	BRL	330									
2-Nitroaniline	BRL	1700									
2-Nitrophenol	BRL	330									
3,3'-Dichlorobenzidine	BRL	670									
3-Nitroaniline	BRL	1700									
4,6-Dinitro-2-methylphenol	BRL	1700									
4-Bromophenyl phenyl ether	BRL	330									
4-Chloro-3-methylphenol	BRL	330									
4-Chloroaniline	BRL	330									
4-Chlorophenyl phenyl ether	BRL	330									
4-Methylphenol	BRL	330									
4-Nitroaniline	BRL	1700									
4-Nitrophenol	BRL	1700									
Acenaphthene	BRL	330									
Acenaphthylene	BRL	330									
Acetophenone	BRL	330									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 232963

Sample ID: MB-232963	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 330004							
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 232963	Analysis Date: 11/17/2016	Seq No: 7175321							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	BRL	330									
Atrazine	BRL	330									
Benz(a)anthracene	BRL	330									
Benzaldehyde	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Benzo(g,h,i)perylene	BRL	330									
Benzo(k)fluoranthene	BRL	330									
Bis(2-chloroethoxy)methane	BRL	330									
Bis(2-chloroethyl)ether	BRL	330									
Bis(2-chloroisopropyl)ether	BRL	330									
Bis(2-ethylhexyl)phthalate	BRL	330									
Butyl benzyl phthalate	BRL	330									
Caprolactam	BRL	330									
Carbazole	BRL	330									
Chrysene	BRL	330									
Di-n-butyl phthalate	BRL	330									
Di-n-octyl phthalate	BRL	330									
Dibenz(a,h)anthracene	BRL	330									
Dibenzofuran	BRL	330									
Diethyl phthalate	BRL	330									
Dimethyl phthalate	BRL	330									
Fluoranthene	BRL	330									
Fluorene	BRL	330									
Hexachlorobenzene	BRL	330									
Hexachlorobutadiene	BRL	330									
Hexachlorocyclopentadiene	BRL	660									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 232963

Sample ID: MB-232963	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 330004							
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 232963	Analysis Date: 11/17/2016	Seq No: 7175321							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachloroethane	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Isophorone	BRL	330									
N-Nitrosodi-n-propylamine	BRL	330									
N-Nitrosodiphenylamine	BRL	330									
Naphthalene	BRL	330									
Nitrobenzene	BRL	330									
Pentachlorophenol	BRL	1700									
Phenanthrene	BRL	330									
Phenol	BRL	330									
Pyrene	BRL	330									
Surr: 2,4,6-Tribromophenol	2745	0	3333		82.4	42.4	130				
Surr: 2-Fluorobiphenyl	1075	0	1667		64.5	51.5	120				
Surr: 2-Fluorophenol	2311	0	3333		69.3	41.1	120				
Surr: 4-Terphenyl-d14	1622	0	1667		97.3	52.7	117				
Surr: Nitrobenzene-d5	1320	0	1667		79.2	41.4	120				
Surr: Phenol-d5	2457	0	3333		73.7	47.6	120				

Sample ID: LCS-232963	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 330263							
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 232963	Analysis Date: 11/18/2016	Seq No: 7178700							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2867	330	3333		86.0	64.8	117				
2-Chlorophenol	2848	330	3333		85.4	61.7	120				
4-Chloro-3-methylphenol	3062	330	3333		91.9	63.7	119				
4-Nitrophenol	2691	1700	3333		80.7	40.1	122				
Acenaphthene	2821	330	3333		84.6	69.6	120				
N-Nitrosodi-n-propylamine	3439	330	3333		103	61.5	132				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 232963

Sample ID: LCS-232963	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 330263							
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 232963	Analysis Date: 11/18/2016	Seq No: 7178700							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Pentachlorophenol	1731	1700	3333		51.9	40.2	121				
Phenol	2945	330	3333		88.4	52.8	120				
Pyrene	3078	330	3333		92.3	64	124				
Surr: 2,4,6-Tribromophenol	2942	0	3333		88.3	42.4	130				
Surr: 2-Fluorobiphenyl	1472	0	1667		88.3	51.5	120				
Surr: 2-Fluorophenol	2858	0	3333		85.7	41.1	120				
Surr: 4-Terphenyl-d14	1668	0	1667		100	52.7	117				
Surr: Nitrobenzene-d5	1599	0	1667		95.9	41.4	120				
Surr: Phenol-d5	3050	0	3333		91.5	47.6	120				

Sample ID: 1611D41-021AMS	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 330162							
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 232963	Analysis Date: 11/17/2016	Seq No: 7175572							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2590	330	3333		77.7	49.2	120				
2-Chlorophenol	2751	330	3333		82.5	51.7	120				
4-Chloro-3-methylphenol	2860	330	3333		85.8	52.9	120				
4-Nitrophenol	2557	1700	3333		76.7	30.8	120				
Acenaphthene	2553	330	3333		76.6	52.2	120				
N-Nitrosodi-n-propylamine	2835	330	3333		85.1	51.7	125				
Pentachlorophenol	3431	1700	3333		103	39.4	120				
Phenol	2376	330	3333		71.3	45.4	120				
Pyrene	2760	330	3333		82.8	49.1	120				
Surr: 2,4,6-Tribromophenol	2967	0	3333		89.0	42.4	130				
Surr: 2-Fluorobiphenyl	1249	0	1667		74.9	51.5	120				
Surr: 2-Fluorophenol	2578	0	3333		77.3	41.1	120				
Surr: 4-Terphenyl-d14	1499	0	1667		89.9	52.7	117				
Surr: Nitrobenzene-d5	1319	0	1667		79.1	41.4	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 232963

Sample ID: 1611D41-021AMS	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 330162							
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 232963	Analysis Date: 11/17/2016	Seq No: 7175572							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Phenol-d5	2590	0	3333		77.7	47.6	120				
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Sample ID: 1611D41-021AMS	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 330162							
SampleType: MSD	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 232963	Analysis Date: 11/17/2016	Seq No: 7175573							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2677	330	3333		80.3	49.2	120	2590	3.29	23.4	
2-Chlorophenol	2801	330	3333		84.0	51.7	120	2751	1.78	29.9	
4-Chloro-3-methylphenol	2911	330	3333		87.3	52.9	120	2860	1.79	45.7	
4-Nitrophenol	2729	1700	3333		81.9	30.8	120	2557	6.52	30.8	
Acenaphthene	2643	330	3333		79.3	52.2	120	2553	3.48	24.4	
N-Nitrosodi-n-propylamine	2895	330	3333		86.9	51.7	125	2835	2.09	19.7	
Pentachlorophenol	3450	1700	3333		103	39.4	120	3431	0.533	26.5	
Phenol	2450	330	3333		73.5	45.4	120	2376	3.09	20.7	
Pyrene	2878	330	3333		86.3	49.1	120	2760	4.19	33.4	
Surr: 2,4,6-Tribromophenol	3161	0	3333		94.8	42.4	130	2967	0	0	
Surr: 2-Fluorobiphenyl	1278	0	1667		76.7	51.5	120	1249	0	0	
Surr: 2-Fluorophenol	2688	0	3333		80.6	41.1	120	2578	0	0	
Surr: 4-Terphenyl-d14	1554	0	1667		93.3	52.7	117	1499	0	0	
Surr: Nitrobenzene-d5	1380	0	1667		82.8	41.4	120	1319	0	0	
Surr: Phenol-d5	2687	0	3333		80.6	47.6	120	2590	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 232973

Sample ID: MB-232973	Client ID:	Units: mg/Kg	Prep Date: 11/16/2016	Run No: 330063							
SampleType: MBLK	TestCode: TOTAL MERCURY SW7471B	BatchID: 232973	Analysis Date: 11/16/2016	Seq No: 7172987							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: LCS-232973	Client ID:	Units: mg/Kg	Prep Date: 11/16/2016	Run No: 330063							
SampleType: LCS	TestCode: TOTAL MERCURY SW7471B	BatchID: 232973	Analysis Date: 11/16/2016	Seq No: 7172990							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.3993 0.100 0.4000 99.8 80 120

Sample ID: 1611D75-010CMS	Client ID: SB-17-0-2	Units: mg/Kg-dry	Prep Date: 11/16/2016	Run No: 330063							
SampleType: MS	TestCode: TOTAL MERCURY SW7471B	BatchID: 232973	Analysis Date: 11/16/2016	Seq No: 7172993							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.3950 0.103 0.4107 0.01703 92.0 70 130

Sample ID: 1611D75-010CMSD	Client ID: SB-17-0-2	Units: mg/Kg-dry	Prep Date: 11/16/2016	Run No: 330063							
SampleType: MSD	TestCode: TOTAL MERCURY SW7471B	BatchID: 232973	Analysis Date: 11/16/2016	Seq No: 7172994							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.3987 0.104 0.4156 0.01703 91.8 70 130 0.3950 0.947 30

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 232982

Sample ID: MB-232982	Client ID:	Units: mg/Kg	Prep Date: 11/16/2016	Run No: 329995							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232982	Analysis Date: 11/16/2016	Seq No: 7172467							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.565 0 3.300 77.7 50.1 122

Sample ID: LCS-232982	Client ID:	Units: mg/Kg	Prep Date: 11/16/2016	Run No: 329995							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232982	Analysis Date: 11/16/2016	Seq No: 7172468							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 34.93 6.7 33.30 1.037 102 56.4 119
 Surr: Dioctylphthalate 2.971 0 3.330 89.2 50.1 122

Sample ID: 1611D75-007BMS	Client ID: SB-4-2-3	Units: mg/Kg-dry	Prep Date: 11/16/2016	Run No: 330150							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232982	Analysis Date: 11/17/2016	Seq No: 7175345							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 35.79 7.1 35.22 2.164 95.5 43.6 123
 Surr: Dioctylphthalate 2.850 0 3.522 80.9 50.1 122

Sample ID: 1611D75-007BMSD	Client ID: SB-4-2-3	Units: mg/Kg-dry	Prep Date: 11/16/2016	Run No: 330150							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 232982	Analysis Date: 11/17/2016	Seq No: 7175347							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 38.27 7.1 35.22 2.164 103 43.6 123 35.79 6.70 25.7
 Surr: Dioctylphthalate 3.044 0 3.522 86.4 50.1 122 2.850 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233025

Sample ID: MB-233025	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330128							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233025	Analysis Date: 11/17/2016	Seq No: 7175157							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	10									
2-Methylnaphthalene	BRL	10									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Chrysene	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Naphthalene	BRL	10									
Phenanthrene	BRL	10									
Pyrene	BRL	10									
Surr: 2-Fluorobiphenyl	36.64	0	50.00		73.3	55.6	120				
Surr: 4-Terphenyl-d14	39.10	0	50.00		78.2	45.7	120				
Surr: Nitrobenzene-d5	37.99	0	50.00		76.0	56.9	120				

Sample ID: LCS-233025	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330128							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233025	Analysis Date: 11/17/2016	Seq No: 7175158							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	37.31	10	50.00		74.6	67.6	120				
2-Methylnaphthalene	35.83	10	50.00		71.7	65.5	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233025

Sample ID: LCS-233025	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330128							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233025	Analysis Date: 11/17/2016	Seq No: 7175158							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	41.09	10	50.00		82.2	70	120				
Acenaphthylene	40.23	10	50.00		80.5	70	120				
Anthracene	45.54	10	50.00		91.1	70	120				
Benz(a)anthracene	48.79	10	50.00		97.6	70	117				
Benzo(a)pyrene	47.75	10	50.00		95.5	70	117				
Benzo(b)fluoranthene	49.80	10	50.00		99.6	70	130				
Benzo(g,h,i)perylene	47.60	10	50.00		95.2	68.6	127				
Benzo(k)fluoranthene	43.92	10	50.00		87.8	70	120				
Chrysene	46.77	10	50.00		93.5	70	120				
Dibenz(a,h)anthracene	47.14	10	50.00		94.3	64.3	123				
Fluoranthene	47.93	10	50.00		95.9	70	120				
Fluorene	41.99	10	50.00		84.0	70	120				
Indeno(1,2,3-cd)pyrene	47.69	10	50.00		95.4	66.5	123				
Naphthalene	35.63	10	50.00		71.3	64.1	120				
Phenanthrene	45.29	10	50.00		90.6	70	120				
Pyrene	48.30	10	50.00		96.6	70	120				
Surr: 2-Fluorobiphenyl	36.14	0	50.00		72.3	55.6	120				
Surr: 4-Terphenyl-d14	44.42	0	50.00		88.8	45.7	120				
Surr: Nitrobenzene-d5	36.78	0	50.00		73.6	56.9	120				

Sample ID: 1611D65-002BMS	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330128							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233025	Analysis Date: 11/17/2016	Seq No: 7175356							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	38.68	10	50.00		77.4	57.6	120				
2-Methylnaphthalene	36.93	10	50.00		73.9	52.1	120				
Acenaphthene	42.45	10	50.00		84.9	56.5	119				
Acenaphthylene	40.62	10	50.00		81.2	60.6	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233025

Sample ID: 1611D65-002BMS	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330128							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233025	Analysis Date: 11/17/2016	Seq No: 7175356							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	44.89	10	50.00		89.8	60	121				
Benz(a)anthracene	46.36	10	50.00		92.7	70.9	122				
Benzo(a)pyrene	44.17	10	50.00		88.3	61.2	122				
Benzo(b)fluoranthene	48.65	10	50.00		97.3	66	133				
Benzo(g,h,i)perylene	43.27	10	50.00		86.5	59	131				
Benzo(k)fluoranthene	40.34	10	50.00		80.7	64	120				
Chrysene	44.55	10	50.00		89.1	70.8	120				
Dibenz(a,h)anthracene	42.60	10	50.00		85.2	55.5	127				
Fluoranthene	46.78	10	50.00		93.6	71.9	121				
Fluorene	42.24	10	50.00		84.5	64.4	118				
Indeno(1,2,3-cd)pyrene	43.99	10	50.00		88.0	58.1	128				
Naphthalene	37.97	10	50.00		75.9	51.3	120				
Phenanthrene	45.03	10	50.00		90.1	70.7	120				
Pyrene	47.08	10	50.00		94.2	60.9	123				
Surr: 2-Fluorobiphenyl	36.56	0	50.00		73.1	55.6	120				
Surr: 4-Terphenyl-d14	39.09	0	50.00		78.2	45.7	120				
Surr: Nitrobenzene-d5	39.30	0	50.00		78.6	56.9	120				

Sample ID: 1611D65-002BMSD	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330128							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233025	Analysis Date: 11/17/2016	Seq No: 7175359							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	38.89	10	50.00		77.8	57.6	120	38.68	0.541	23.3	
2-Methylnaphthalene	36.90	10	50.00		73.8	52.1	120	36.93	0.081	24	
Acenaphthene	40.90	10	50.00		81.8	56.5	119	42.45	3.72	20.7	
Acenaphthylene	41.03	10	50.00		82.1	60.6	120	40.62	1.00	20.5	
Anthracene	43.19	10	50.00		86.4	60	121	44.89	3.86	22.4	
Benz(a)anthracene	44.61	10	50.00		89.2	70.9	122	46.36	3.85	18.6	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233025

Sample ID: 1611D65-002BMSD	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330128							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233025	Analysis Date: 11/17/2016	Seq No: 7175539							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(a)pyrene	42.91	10	50.00		85.8	61.2	122	44.17	2.89	22.2	
Benzo(b)fluoranthene	46.22	10	50.00		92.4	66	133	48.65	5.12	19.3	
Benzo(g,h,i)perylene	42.76	10	50.00		85.5	59	131	43.27	1.19	20.5	
Benzo(k)fluoranthene	39.92	10	50.00		79.8	64	120	40.34	1.05	19.7	
Chrysene	42.47	10	50.00		84.9	70.8	120	44.55	4.78	17.4	
Dibenz(a,h)anthracene	42.38	10	50.00		84.8	55.5	127	42.60	0.518	22.6	
Fluoranthene	44.85	10	50.00		89.7	71.9	121	46.78	4.21	20	
Fluorene	42.06	10	50.00		84.1	64.4	118	42.24	0.427	19.9	
Indeno(1,2,3-cd)pyrene	41.91	10	50.00		83.8	58.1	128	43.99	4.84	20.8	
Naphthalene	37.55	10	50.00		75.1	51.3	120	37.97	1.11	21.5	
Phenanthrene	43.18	10	50.00		86.4	70.7	120	45.03	4.19	20	
Pyrene	45.69	10	50.00		91.4	60.9	123	47.08	3.00	18.6	
Surr: 2-Fluorobiphenyl	36.12	0	50.00		72.2	55.6	120	36.56	0	0	
Surr: 4-Terphenyl-d14	37.74	0	50.00		75.5	45.7	120	39.09	0	0	
Surr: Nitrobenzene-d5	37.85	0	50.00		75.7	56.9	120	39.30	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233054

Sample ID: MB-233054	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330026							
SampleType: MBLK	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7171993							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
o-Xylene	BRL	1.0									
Toluene	BRL	1.0									
Surr: 4-Bromofluorobenzene	39.06	0	50.00		78.1	70.1	126				

Sample ID: MB-233054	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330032							
SampleType: MBLK	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7172044							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	BRL	0.50									
Surr: a.a.a-trifluorotoluene	0.05334	0	0.0500		107	75.1	120				

Sample ID: LCS-233054	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330058							
SampleType: LCS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7172925							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	55.59	1.0	50.00		111	74.9	123				
Ethylbenzene	56.47	1.0	50.00		113	79.3	125				
m,p-Xylene	112.6	1.0	100.0		113	79.7	127				
o-Xylene	54.70	1.0	50.00		109	77.1	128				
Toluene	55.86	1.0	50.00		112	75	124				
Surr: 4-Bromofluorobenzene	48.16	0	50.00		96.3	70.1	126				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233054

Sample ID: LCS-233054	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330032							
SampleType: LCS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7173030							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	1.128	0.50	1.000		113	69.9	126				
Surr: a.a.a-trifluorotoluene	0.05322	0	0.0500		106	75.1	120				

Sample ID: 1611A16-019AMS	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330032							
SampleType: MS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7173031							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	1.570	0.50	1.000	0.3421	123	65.8	133				
Surr: a.a.a-trifluorotoluene	0.05871	0	0.0500		117	75.1	120				

Sample ID: 1611A16-019AMS	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330102							
SampleType: MS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7174147							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	55.57	1.0	50.00	0.3400	110	70.1	132				
Ethylbenzene	59.25	1.0	50.00	0.2600	118	77.8	129				
m,p-Xylene	119.9	1.0	100.0	4.080	116	75.6	132				
o-Xylene	57.22	1.0	50.00	1.060	112	73.3	134				
Toluene	57.88	1.0	50.00	1.120	114	70.1	133				
Surr: 4-Bromofluorobenzene	50.50	0	50.00		101	70.1	126				

Sample ID: 1611A16-019AMSD	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330032							
SampleType: MSD	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7173032							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	1.482	0.50	1.000	0.3421	114	65.8	133	1.570	5.76	20	
Surr: a.a.a-trifluorotoluene	0.05413	0	0.0500		108	75.1	120	0.05871	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233054

Sample ID: 1611A16-019AMSD	Client ID:	Units: ug/L	Prep Date: 11/16/2016	Run No: 330102							
SampleType: MSD	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233054	Analysis Date: 11/16/2016	Seq No: 7174148							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	55.61	1.0	50.00	0.3400	111	70.1	132	55.57	0.072	20	
Ethylbenzene	59.03	1.0	50.00	0.2600	118	77.8	129	59.25	0.372	20	
m,p-Xylene	119.2	1.0	100.0	4.080	115	75.6	132	119.9	0.602	20	
o-Xylene	57.62	1.0	50.00	1.060	113	73.3	134	57.22	0.697	20	
Toluene	57.20	1.0	50.00	1.120	112	70.1	133	57.88	1.18	20	
Surr: 4-Bromofluorobenzene	51.79	0	50.00		104	70.1	126	50.50	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233078

Sample ID: MB-233078	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 330125							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233078	Analysis Date: 11/17/2016	Seq No: 7174621							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	330									
2-Methylnaphthalene	BRL	330									
Acenaphthene	BRL	330									
Acenaphthylene	BRL	330									
Anthracene	BRL	330									
Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Benzo(g,h,i)perylene	BRL	330									
Benzo(k)fluoranthene	BRL	330									
Chrysene	BRL	330									
Dibenz(a,h)anthracene	BRL	330									
Fluoranthene	BRL	330									
Fluorene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Naphthalene	BRL	330									
Phenanthrene	BRL	330									
Pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1265	0	1667		75.9	56.7	120				
Surr: 4-Terphenyl-d14	1373	0	1667		82.4	60	120				
Surr: Nitrobenzene-d5	1405	0	1667		84.3	52.6	120				

Sample ID: LCS-233078	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 329993							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233078	Analysis Date: 11/17/2016	Seq No: 7173780							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1334	330	1667		80.1	66.4	120				
2-Methylnaphthalene	1277	330	1667		76.6	64.8	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233078

Sample ID: LCS-233078	Client ID:	Units: ug/Kg	Prep Date: 11/16/2016	Run No: 329993							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233078	Analysis Date: 11/17/2016	Seq No: 7173780							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	1399	330	1667		83.9	70.1	120				
Acenaphthylene	1368	330	1667		82.1	68.5	120				
Anthracene	1455	330	1667		87.3	71.7	120				
Benz(a)anthracene	1528	330	1667		91.7	74.9	120				
Benzo(a)pyrene	1488	330	1667		89.3	64.3	120				
Benzo(b)fluoranthene	1691	330	1667		101	69.9	120				
Benzo(g,h,i)perylene	1478	330	1667		88.7	70.9	120				
Benzo(k)fluoranthene	1463	330	1667		87.8	67.3	120				
Chrysene	1477	330	1667		88.6	74.1	120				
Dibenz(a,h)anthracene	1474	330	1667		88.4	62.7	120				
Fluoranthene	1494	330	1667		89.7	74.6	120				
Fluorene	1375	330	1667		82.5	72.2	120				
Indeno(1,2,3-cd)pyrene	1469	330	1667		88.2	66.3	120				
Naphthalene	1267	330	1667		76.0	63.5	120				
Phenanthrene	1486	330	1667		89.2	73.5	120				
Pyrene	1496	330	1667		89.8	67.9	120				
Surr: 2-Fluorobiphenyl	1241	0	1667		74.4	56.7	120				
Surr: 4-Terphenyl-d14	1387	0	1667		83.2	60	120				
Surr: Nitrobenzene-d5	1284	0	1667		77.1	52.6	120				

Sample ID: 1611F83-021BMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/16/2016	Run No: 329993							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233078	Analysis Date: 11/17/2016	Seq No: 7174715							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1463	380	1931		75.8	61.1	120				
2-Methylnaphthalene	1429	380	1931		74.0	57.4	120				
Acenaphthene	1515	380	1931		78.5	60.2	120				
Acenaphthylene	1504	380	1931		77.9	59.9	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233078

Sample ID: 1611F83-021BMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/16/2016	Run No: 329993							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233078	Analysis Date: 11/17/2016	Seq No: 7174715							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	1570	380	1931		81.3	59.6	120				
Benz(a)anthracene	1641	380	1931		85.0	64.8	120				
Benzo(a)pyrene	1603	380	1931		83.1	56.1	120				
Benzo(b)fluoranthene	1759	380	1931		91.1	60	126				
Benzo(g,h,i)perylene	1565	380	1931		81.1	56.1	123				
Benzo(k)fluoranthene	1540	380	1931		79.8	55.2	120				
Chrysene	1556	380	1931		80.6	57.9	120				
Dibenz(a,h)anthracene	1524	380	1931		78.9	54.4	119				
Fluoranthene	1605	380	1931		83.1	58.3	119				
Fluorene	1483	380	1931		76.8	61.9	120				
Indeno(1,2,3-cd)pyrene	1550	380	1931		80.3	52.4	124				
Naphthalene	1422	380	1931		73.7	52.7	120				
Phenanthrene	1549	380	1931		80.2	57.7	120				
Pyrene	1589	380	1931		82.3	57.9	120				
Surr: 2-Fluorobiphenyl	1350	0	1931		69.9	56.7	120				
Surr: 4-Terphenyl-d14	1443	0	1931		74.7	60	120				
Surr: Nitrobenzene-d5	1416	0	1931		73.4	52.6	120				

Sample ID: 1611F83-021BMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/16/2016	Run No: 329993							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233078	Analysis Date: 11/17/2016	Seq No: 7174716							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1588	380	1931		82.3	61.1	120	1463	8.23	20	
2-Methylnaphthalene	1526	380	1931		79.0	57.4	120	1429	6.56	20.9	
Acenaphthene	1675	380	1931		86.8	60.2	120	1515	10.0	22.6	
Acenaphthylene	1642	380	1931		85.1	59.9	120	1504	8.79	26.3	
Anthracene	1668	380	1931		86.4	59.6	120	1570	6.08	24.5	
Benz(a)anthracene	1783	380	1931		92.3	64.8	120	1641	8.30	20.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233078

Sample ID: 1611F83-021BMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/16/2016	Run No: 329993							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233078	Analysis Date: 11/17/2016	Seq No: 7174716							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzo(a)pyrene	1720	380	1931		89.1	56.1	120	1603	7.04	21.1	
Benzo(b)fluoranthene	2030	380	1931		105	60	126	1759	14.3	23	
Benzo(g,h,i)perylene	1371	380	1931		71.0	56.1	123	1565	13.2	22.6	
Benzo(k)fluoranthene	1720	380	1931		89.1	55.2	120	1540	11.1	30	
Chrysene	1722	380	1931		89.2	57.9	120	1556	10.1	20.9	
Dibenz(a,h)anthracene	1439	380	1931		74.5	54.4	119	1524	5.71	26.9	
Fluoranthene	1778	380	1931		92.1	58.3	119	1605	10.2	26.6	
Fluorene	1660	380	1931		86.0	61.9	120	1483	11.3	23.8	
Indeno(1,2,3-cd)pyrene	1424	380	1931		73.7	52.4	124	1550	8.49	30.1	
Naphthalene	1534	380	1931		79.4	52.7	120	1422	7.55	22.1	
Phenanthrene	1682	380	1931		87.1	57.7	120	1549	8.27	25.8	
Pyrene	1756	380	1931		91.0	57.9	120	1589	9.97	25.2	
Surr: 2-Fluorobiphenyl	1488	0	1931		77.1	56.7	120	1350	0	0	
Surr: 4-Terphenyl-d14	1578	0	1931		81.7	60	120	1443	0	0	
Surr: Nitrobenzene-d5	1483	0	1931		76.8	52.6	120	1416	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233098

Sample ID: MB-233098	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330243							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 233098	Analysis Date: 11/17/2016	Seq No: 7178069							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diesel Range Organics	BRL	0.20									
Surr: Dioctylphthalate	0.06967	0	0.1000		69.7	47	119				

Sample ID: LCS-233098	Client ID:	Units: mg/L	Prep Date: 11/16/2016	Run No: 330243							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 233098	Analysis Date: 11/17/2016	Seq No: 7178070							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diesel Range Organics	1.074	0.20	1.000		107	51.3	122				
Surr: Dioctylphthalate	0.08794	0	0.1000		87.9	47	119				

Sample ID: LCSD-233098	Client ID:	Units: mg/L	Prep Date: 11/17/2016	Run No: 330243							
SampleType: LCSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 233098	Analysis Date: 11/17/2016	Seq No: 7178071							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diesel Range Organics	1.060	0.20	1.000		106	51.3	122	1.074	1.27	33.5	
Surr: Dioctylphthalate	0.09022	0	0.1000		90.2	47	119	0.08794	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233172

Sample ID: MB-233172	Client ID:	Units: ug/Kg	Prep Date: 11/18/2016	Run No: 330234							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181036							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	330									
2-Methylnaphthalene	BRL	330									
Acenaphthene	BRL	330									
Acenaphthylene	BRL	330									
Anthracene	BRL	330									
Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Benzo(g,h,i)perylene	BRL	330									
Benzo(k)fluoranthene	BRL	330									
Chrysene	BRL	330									
Dibenz(a,h)anthracene	BRL	330									
Fluoranthene	BRL	330									
Fluorene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Naphthalene	BRL	330									
Phenanthrene	BRL	330									
Pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1163	0	1667		69.8	56.7	120				
Surr: 4-Terphenyl-d14	1286	0	1667		77.2	60	120				
Surr: Nitrobenzene-d5	1275	0	1667		76.5	52.6	120				

Sample ID: LCS-233172	Client ID:	Units: ug/Kg	Prep Date: 11/18/2016	Run No: 330234							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181037							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1203	330	1667		72.2	66.4	120				
2-Methylnaphthalene	1155	330	1667		69.3	64.8	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233172

Sample ID: LCS-233172	Client ID:	Units: ug/Kg	Prep Date: 11/18/2016	Run No: 330234							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181037							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	1261	330	1667		75.6	70.1	120				
Acenaphthylene	1260	330	1667		75.6	68.5	120				
Anthracene	1257	330	1667		75.4	71.7	120				
Benz(a)anthracene	1344	330	1667		80.6	74.9	120				
Benzo(a)pyrene	1293	330	1667		77.6	64.3	120				
Benzo(b)fluoranthene	1490	330	1667		89.4	69.9	120				
Benzo(g,h,i)perylene	1333	330	1667		80.0	70.9	120				
Benzo(k)fluoranthene	1283	330	1667		77.0	67.3	120				
Chrysene	1303	330	1667		78.2	74.1	120				
Dibenz(a,h)anthracene	1327	330	1667		79.6	62.7	120				
Fluoranthene	1324	330	1667		79.4	74.6	120				
Fluorene	1259	330	1667		75.6	72.2	120				
Indeno(1,2,3-cd)pyrene	1325	330	1667		79.5	66.3	120				
Naphthalene	1209	330	1667		72.6	63.5	120				
Phenanthrene	1309	330	1667		78.5	73.5	120				
Pyrene	1314	330	1667		78.9	67.9	120				
Surr: 2-Fluorobiphenyl	1143	0	1667		68.6	56.7	120				
Surr: 4-Terphenyl-d14	1193	0	1667		71.6	60	120				
Surr: Nitrobenzene-d5	1141	0	1667		68.4	52.6	120				

Sample ID: 1611D75-008BMS	Client ID: SB-5/12-2-3	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330234							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181039							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1556	390	1960		79.4	61.1	120				
2-Methylnaphthalene	1507	390	1960		76.9	57.4	120				
Acenaphthene	1639	390	1960		83.6	60.2	120				
Acenaphthylene	1601	390	1960		81.7	59.9	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233172

Sample ID: 1611D75-008BMS	Client ID: SB-5/12-2-3	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330234
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181039

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Anthracene	1682	390	1960		85.8	59.6	120				
Benz(a)anthracene	1774	390	1960		90.5	64.8	120				
Benzo(a)pyrene	1730	390	1960		88.3	56.1	120				
Benzo(b)fluoranthene	1931	390	1960		98.5	60	126				
Benzo(g,h,i)perylene	1766	390	1960		90.1	56.1	123				
Benzo(k)fluoranthene	1682	390	1960		85.8	55.2	120				
Chrysene	1753	390	1960		89.4	57.9	120				
Dibenz(a,h)anthracene	1717	390	1960		87.6	54.4	119				
Fluoranthene	1796	390	1960		91.6	58.3	119				
Fluorene	1652	390	1960		84.3	61.9	120				
Indeno(1,2,3-cd)pyrene	1714	390	1960		87.4	52.4	124				
Naphthalene	1534	390	1960		78.2	52.7	120				
Phenanthrene	1704	390	1960		86.9	57.7	120				
Pyrene	1750	390	1960		89.3	57.9	120				
Surr: 2-Fluorobiphenyl	1460	0	1960		74.5	56.7	120				
Surr: 4-Terphenyl-d14	1609	0	1960		82.1	60	120				
Surr: Nitrobenzene-d5	1531	0	1960		78.1	52.6	120				

Sample ID: 1611D75-008BMSD	Client ID: SB-5/12-2-3	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330234
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181040

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	1551	390	1960		79.1	61.1	120	1556	0.303	20	
2-Methylnaphthalene	1485	390	1960		75.8	57.4	120	1507	1.49	20.9	
Acenaphthene	1623	390	1960		82.8	60.2	120	1639	0.937	22.6	
Acenaphthylene	1570	390	1960		80.1	59.9	120	1601	1.98	26.3	
Anthracene	1603	390	1960		81.8	59.6	120	1682	4.82	24.5	
Benz(a)anthracene	1685	390	1960		86.0	64.8	120	1774	5.15	20.9	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233172

Sample ID: 1611D75-008BMSD	Client ID: SB-5/12-2-3	Units: ug/Kg-dry	Prep Date: 11/18/2016	Run No: 330234
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 233172	Analysis Date: 11/18/2016	Seq No: 7181040

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(a)pyrene	1594	390	1960		81.3	56.1	120	1730	8.21	21.1	
Benzo(b)fluoranthene	1825	390	1960		93.1	60	126	1931	5.66	23	
Benzo(g,h,i)perylene	1666	390	1960		85.0	56.1	123	1766	5.85	22.6	
Benzo(k)fluoranthene	1578	390	1960		80.5	55.2	120	1682	6.35	30	
Chrysene	1656	390	1960		84.5	57.9	120	1753	5.66	20.9	
Dibenz(a,h)anthracene	1625	390	1960		82.9	54.4	119	1717	5.49	26.9	
Fluoranthene	1690	390	1960		86.2	58.3	119	1796	6.07	26.6	
Fluorene	1537	390	1960		78.4	61.9	120	1652	7.23	23.8	
Indeno(1,2,3-cd)pyrene	1622	390	1960		82.8	52.4	124	1714	5.48	30.1	
Naphthalene	1527	390	1960		77.9	52.7	120	1534	0.436	22.1	
Phenanthrene	1616	390	1960		82.4	57.7	120	1704	5.31	25.8	
Pyrene	1639	390	1960		83.6	57.9	120	1750	6.57	25.2	
Surr: 2-Fluorobiphenyl	1496	0	1960		76.3	56.7	120	1460	0	0	
Surr: 4-Terphenyl-d14	1531	0	1960		78.1	60	120	1609	0	0	
Surr: Nitrobenzene-d5	1597	0	1960		81.5	52.6	120	1531	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233173

Sample ID: MB-233173	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330295
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 233173	Analysis Date: 11/18/2016	Seq No: 7179524

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1'-Biphenyl	BRL	330									
2,4,5-Trichlorophenol	BRL	1700									
2,4,6-Trichlorophenol	BRL	330									
2,4-Dichlorophenol	BRL	330									
2,4-Dimethylphenol	BRL	330									
2,4-Dinitrophenol	BRL	1700									
2,4-Dinitrotoluene	BRL	330									
2,6-Dinitrotoluene	BRL	330									
2-Chloronaphthalene	BRL	330									
2-Chlorophenol	BRL	330									
2-Methylnaphthalene	BRL	330									
2-Methylphenol	BRL	330									
2-Nitroaniline	BRL	1700									
2-Nitrophenol	BRL	330									
3,3'-Dichlorobenzidine	BRL	670									
3-Nitroaniline	BRL	1700									
4,6-Dinitro-2-methylphenol	BRL	1700									
4-Bromophenyl phenyl ether	BRL	330									
4-Chloro-3-methylphenol	BRL	330									
4-Chloroaniline	BRL	330									
4-Chlorophenyl phenyl ether	BRL	330									
4-Methylphenol	BRL	330									
4-Nitroaniline	BRL	1700									
4-Nitrophenol	BRL	1700									
Acenaphthene	BRL	330									
Acenaphthylene	BRL	330									
Acetophenone	BRL	330									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233173

Sample ID: MB-233173	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330295							
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 233173	Analysis Date: 11/18/2016	Seq No: 7179524							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	BRL	330									
Atrazine	BRL	330									
Benz(a)anthracene	BRL	330									
Benzaldehyde	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Benzo(g,h,i)perylene	BRL	330									
Benzo(k)fluoranthene	BRL	330									
Bis(2-chloroethoxy)methane	BRL	330									
Bis(2-chloroethyl)ether	BRL	330									
Bis(2-chloroisopropyl)ether	BRL	330									
Bis(2-ethylhexyl)phthalate	BRL	330									
Butyl benzyl phthalate	BRL	330									
Caprolactam	BRL	330									
Carbazole	BRL	330									
Chrysene	BRL	330									
Di-n-butyl phthalate	BRL	330									
Di-n-octyl phthalate	BRL	330									
Dibenz(a,h)anthracene	BRL	330									
Dibenzofuran	BRL	330									
Diethyl phthalate	BRL	330									
Dimethyl phthalate	BRL	330									
Fluoranthene	BRL	330									
Fluorene	BRL	330									
Hexachlorobenzene	BRL	330									
Hexachlorobutadiene	BRL	330									
Hexachlorocyclopentadiene	BRL	660									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233173

Sample ID: MB-233173	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330295							
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 233173	Analysis Date: 11/18/2016	Seq No: 7179524							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachloroethane	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Isophorone	BRL	330									
N-Nitrosodi-n-propylamine	BRL	330									
N-Nitrosodiphenylamine	BRL	330									
Naphthalene	BRL	330									
Nitrobenzene	BRL	330									
Pentachlorophenol	BRL	1700									
Phenanthrene	BRL	330									
Phenol	BRL	330									
Pyrene	BRL	330									
Surr: 2,4,6-Tribromophenol	2632	0	3333		79.0	42.4	130				
Surr: 2-Fluorobiphenyl	1322	0	1667		79.3	51.5	120				
Surr: 2-Fluorophenol	2579	0	3333		77.4	41.1	120				
Surr: 4-Terphenyl-d14	1415	0	1667		84.9	52.7	117				
Surr: Nitrobenzene-d5	1185	0	1667		71.1	41.4	120				
Surr: Phenol-d5	2498	0	3333		75.0	47.6	120				

Sample ID: LCS-233173	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330295							
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 233173	Analysis Date: 11/18/2016	Seq No: 7179525							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2538	330	3333		76.2	64.8	117				
2-Chlorophenol	2355	330	3333		70.6	61.7	120				
4-Chloro-3-methylphenol	2549	330	3333		76.5	63.7	119				
4-Nitrophenol	BRL	1700	3333		50.5	40.1	122				
Acenaphthene	2542	330	3333		76.3	69.6	120				
N-Nitrosodi-n-propylamine	2368	330	3333		71.0	61.5	132				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233173

Sample ID: LCS-233173	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330295							
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 233173	Analysis Date: 11/18/2016	Seq No: 7179525							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Pentachlorophenol	2000	1700	3333		60.0	40.2	121				
Phenol	2207	330	3333		66.2	52.8	120				
Pyrene	2694	330	3333		80.8	64	124				
Surr: 2,4,6-Tribromophenol	2744	0	3333		82.3	42.4	130				
Surr: 2-Fluorobiphenyl	1352	0	1667		81.1	51.5	120				
Surr: 2-Fluorophenol	2232	0	3333		67.0	41.1	120				
Surr: 4-Terphenyl-d14	1492	0	1667		89.5	52.7	117				
Surr: Nitrobenzene-d5	1140	0	1667		68.4	41.4	120				
Surr: Phenol-d5	2308	0	3333		69.2	47.6	120				

Sample ID: 1611D75-051AMS	Client ID: SB-DUP-5	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330295							
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 233173	Analysis Date: 11/18/2016	Seq No: 7182043							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2784	390	3939		70.7	49.2	120				
2-Chlorophenol	2718	390	3939		69.0	51.7	120				
4-Chloro-3-methylphenol	2786	390	3939		70.7	52.9	120				
4-Nitrophenol	BRL	2000	3939		50.6	30.8	120				
Acenaphthene	2787	390	3939		70.8	52.2	120				
N-Nitrosodi-n-propylamine	2629	390	3939		66.7	51.7	125				
Pentachlorophenol	2503	2000	3939		63.6	39.4	120				
Phenol	2458	390	3939		62.4	45.4	120				
Pyrene	2880	390	3939		73.1	49.1	120				
Surr: 2,4,6-Tribromophenol	2970	0	3939		75.4	42.4	130				
Surr: 2-Fluorobiphenyl	1435	0	1969		72.9	51.5	120				
Surr: 2-Fluorophenol	2484	0	3939		63.1	41.1	120				
Surr: 4-Terphenyl-d14	1566	0	1969		79.5	52.7	117				
Surr: Nitrobenzene-d5	1235	0	1969		62.7	41.4	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233173

Sample ID: 1611D75-051AMS	Client ID: SB-DUP-5	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330295							
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 233173	Analysis Date: 11/18/2016	Seq No: 7182043							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Phenol-d5	2536	0	3939		64.4	47.6	120				
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Sample ID: 1611D75-051AMSD	Client ID: SB-DUP-5	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330295							
SampleType: MSD	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 233173	Analysis Date: 11/18/2016	Seq No: 7182044							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2844	390	3939		72.2	49.2	120	2784	2.14	23.4	
2-Chlorophenol	2792	390	3939		70.9	51.7	120	2718	2.72	29.9	
4-Chloro-3-methylphenol	2931	390	3939		74.4	52.9	120	2786	5.06	45.7	
4-Nitrophenol	2098	2000	3939		53.3	30.8	120	1992	5.22	30.8	
Acenaphthene	2845	390	3939		72.2	52.2	120	2787	2.06	24.4	
N-Nitrosodi-n-propylamine	2701	390	3939		68.6	51.7	125	2629	2.70	19.7	
Pentachlorophenol	2364	2000	3939		60.0	39.4	120	2503	5.70	26.5	
Phenol	2590	390	3939		65.8	45.4	120	2458	5.20	20.7	
Pyrene	2935	390	3939		74.5	49.1	120	2880	1.90	33.4	
Surr: 2,4,6-Tribromophenol	2998	0	3939		76.1	42.4	130	2970	0	0	
Surr: 2-Fluorobiphenyl	1472	0	1969		74.7	51.5	120	1435	0	0	
Surr: 2-Fluorophenol	2646	0	3939		67.2	41.1	120	2484	0	0	
Surr: 4-Terphenyl-d14	1635	0	1969		83.0	52.7	117	1566	0	0	
Surr: Nitrobenzene-d5	1307	0	1969		66.4	41.4	120	1235	0	0	
Surr: Phenol-d5	2666	0	3939		67.7	47.6	120	2536	0	0	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233182

Sample ID: MB-233182	Client ID:	Units: mg/L	Prep Date: 11/18/2016	Run No: 330293							
SampleType: MBLK	TestCode: Mercury, Total SW7470A	BatchID: 233182	Analysis Date: 11/18/2016	Seq No: 7179366							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00020

Sample ID: LCS-233182	Client ID:	Units: mg/L	Prep Date: 11/18/2016	Run No: 330293							
SampleType: LCS	TestCode: Mercury, Total SW7470A	BatchID: 233182	Analysis Date: 11/18/2016	Seq No: 7179367							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.005123 0.00020 0.0050 102 80 120

Sample ID: 1611D75-006CMS	Client ID: GW-31-1	Units: mg/L	Prep Date: 11/18/2016	Run No: 330293							
SampleType: MS	TestCode: Mercury, Total SW7470A	BatchID: 233182	Analysis Date: 11/18/2016	Seq No: 7179369							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.005246 0.00020 0.0050 105 70 130

Sample ID: 1611D75-006CMSD	Client ID: GW-31-1	Units: mg/L	Prep Date: 11/18/2016	Run No: 330293							
SampleType: MSD	TestCode: Mercury, Total SW7470A	BatchID: 233182	Analysis Date: 11/18/2016	Seq No: 7179370							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.005161 0.00020 0.0050 103 70 130 0.005246 1.65 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233202

Sample ID: MB-233202	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330228							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233202	Analysis Date: 11/17/2016	Seq No: 7177765							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233202

Sample ID: MB-233202	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330228							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233202	Analysis Date: 11/17/2016	Seq No: 7177765							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	51.78	0	50.00		104	70	128				
Surr: Dibromofluoromethane	52.23	0	50.00		104	78.2	128				
Surr: Toluene-d8	48.98	0	50.00		98.0	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233202

Sample ID: LCS-233202	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330228							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233202	Analysis Date: 11/17/2016	Seq No: 7177764							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	46.87	5.0	50.00		93.7	69.9	145				
Benzene	45.80	5.0	50.00		91.6	72.3	130				
Chlorobenzene	44.26	5.0	50.00		88.5	69	130				
Toluene	45.63	5.0	50.00		91.3	71.1	130				
Trichloroethene	42.45	5.0	50.00		84.9	71.7	136				
Surr: 4-Bromofluorobenzene	50.87	0	50.00		102	70	128				
Surr: Dibromofluoromethane	50.40	0	50.00		101	78.2	128				
Surr: Toluene-d8	49.38	0	50.00		98.8	76.5	116				

Sample ID: 1611C80-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330228							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233202	Analysis Date: 11/17/2016	Seq No: 7177766							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	46.54	5.5	54.74		85.0	56.6	151				
Benzene	48.49	5.5	54.74		88.6	70.4	130				
Chlorobenzene	47.48	5.5	54.74		86.7	67.5	132				
Toluene	48.61	5.5	54.74		88.8	70.4	130				
Trichloroethene	43.60	5.5	54.74		79.6	70.1	137				
Surr: 4-Bromofluorobenzene	54.92	0	54.74		100	70	128				
Surr: Dibromofluoromethane	54.57	0	54.74		99.7	78.2	128				
Surr: Toluene-d8	54.09	0	54.74		98.8	76.5	116				

Sample ID: 1611C80-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330228							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233202	Analysis Date: 11/17/2016	Seq No: 7177767							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	48.00	5.5	54.74		87.7	56.6	151	46.54	3.08	20.4	
Benzene	48.55	5.5	54.74		88.7	70.4	130	48.49	0.113	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233202

Sample ID: 1611C80-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330228
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233202	Analysis Date: 11/17/2016	Seq No: 7177767

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	48.05	5.5	54.74		87.8	67.5	132	47.48	1.19	14.6	
Toluene	50.37	5.5	54.74		92.0	70.4	130	48.61	3.56	16.6	
Trichloroethene	44.30	5.5	54.74		80.9	70.1	137	43.60	1.59	17	
Surr: 4-Bromofluorobenzene	53.82	0	54.74		98.3	70	128	54.92	0	0	
Surr: Dibromofluoromethane	53.08	0	54.74		97.0	78.2	128	54.57	0	0	
Surr: Toluene-d8	54.29	0	54.74		99.2	76.5	116	54.09	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233234

Sample ID: MB-233234	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330181							
SampleType: MBLK	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177881							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
o-Xylene	BRL	1.0									
Toluene	BRL	1.0									
Surr: 4-Bromofluorobenzene	42.29	0	50.00		84.6	70	128				

Sample ID: MB-233234	Client ID:	Units: mg/Kg	Prep Date: 11/17/2016	Run No: 330186							
SampleType: MBLK	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177962							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	BRL	0.50									
Surr: a.a.a-trifluorotoluene	0.05679	0	0.0500		114	69.8	134				

Sample ID: LCS-233234	Client ID:	Units: ug/Kg	Prep Date: 11/17/2016	Run No: 330181							
SampleType: LCS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177889							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	47.73	1.0	50.00		95.5	72.3	130				
Ethylbenzene	47.05	1.0	50.00		94.1	70.4	130				
m,p-Xylene	95.22	1.0	100.0		95.2	70.1	130				
o-Xylene	47.21	1.0	50.00		94.4	70.1	128				
Toluene	44.42	1.0	50.00		88.8	71.1	130				
Surr: 4-Bromofluorobenzene	42.56	0	50.00		85.1	70	128				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233234

Sample ID: LCS-233234	Client ID:	Units: mg/Kg	Prep Date: 11/17/2016	Run No: 330186							
SampleType: LCS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177966							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	0.8303	0.50	1.000		83.0	68.9	129				
Surr: a.a.a-trifluorotoluene	0.05813	0	0.0500		116	69.8	134				

Sample ID: 1611C79-008AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330181							
SampleType: MS	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177891							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	58.62	1.2	60.00		97.7	70.4	130				
Ethylbenzene	55.15	1.2	60.00		91.9	64.9	136				
m,p-Xylene	115.8	1.2	120.0		96.5	60.2	138				
o-Xylene	56.47	1.2	60.00		94.1	61.5	134				
Toluene	56.04	1.2	60.00		93.4	70.4	130				
Surr: 4-Bromofluorobenzene	54.37	0	60.00		90.6	70	128				

Sample ID: 1611C79-008AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 11/17/2016	Run No: 330186							
SampleType: MS	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177968							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	0.9411	0.60	1.200		78.4	61.1	134				
Surr: a.a.a-trifluorotoluene	0.06789	0	0.0600		113	69.8	134				

Sample ID: 1611C79-008AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330181							
SampleType: MSD	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177892							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	58.27	1.2	60.00		97.1	70.4	130	58.62	0.595	16.9	
Ethylbenzene	53.99	1.2	60.00		90.0	64.9	136	55.15	2.13	16.3	
m,p-Xylene	112.7	1.2	120.0		93.9	60.2	138	115.8	2.73	16.3	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233234

Sample ID: 1611C79-008AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/17/2016	Run No: 330181							
SampleType: MSD	TestCode: VOLATILE ORGANICS SW8260B	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177892							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

o-Xylene	56.78	1.2	60.00		94.6	61.5	134	56.47	0.551	16.1	
Toluene	53.17	1.2	60.00		88.6	70.4	130	56.04	5.25	16.6	
Surr: 4-Bromofluorobenzene	56.75	0	60.00		94.6	70	128	54.37	0	0	

Sample ID: 1611C79-008AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 11/17/2016	Run No: 330186							
SampleType: MSD	TestCode: GASOLINE RANGE ORGANICS SW8015C	BatchID: 233234	Analysis Date: 11/17/2016	Seq No: 7177969							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Gasoline Range Organics)	0.9366	0.60	1.200		78.0	61.1	134	0.9411	0.481	20	
Surr: a.a.a-trifluorotoluene	0.06816	0	0.0600		114	69.8	134	0.06789	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233240

Sample ID: MB-233240	Client ID:	Units: mg/Kg	Prep Date: 11/19/2016	Run No: 330426							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 233240	Analysis Date: 11/21/2016	Seq No: 7183675							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	5.00									
Barium	BRL	5.00									
Cadmium	BRL	2.50									
Chromium	BRL	2.50									
Copper	BRL	2.50									
Lead	BRL	5.00									
Selenium	BRL	5.00									
Silver	BRL	2.50									

Sample ID: LCS-233240	Client ID:	Units: mg/Kg	Prep Date: 11/19/2016	Run No: 330426							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 233240	Analysis Date: 11/21/2016	Seq No: 7183676							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	49.13	5.00	50.00		98.3	80	120				
Barium	49.24	5.00	50.00		98.5	80	120				
Cadmium	49.07	2.50	50.00		98.1	80	120				
Chromium	49.85	2.50	50.00	0.02703	99.6	80	120				
Copper	49.55	2.50	50.00		99.1	80	120				
Lead	48.73	5.00	50.00		97.5	80	120				
Selenium	48.61	5.00	50.00		97.2	80	120				
Silver	4.788	2.50	5.000		95.8	80	120				

Sample ID: 1611D75-003CMS	Client ID: SB-31-2-1-2	Units: mg/Kg-dry	Prep Date: 11/19/2016	Run No: 330426							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 233240	Analysis Date: 11/21/2016	Seq No: 7183680							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	39.86	4.20	42.03		94.9	75	125				
Barium	42.38	4.20	42.03	2.674	94.5	75	125				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233240

Sample ID: 1611D75-003CMS	Client ID: SB-31-2-1-2	Units: mg/Kg-dry	Prep Date: 11/19/2016	Run No: 330426							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 233240	Analysis Date: 11/21/2016	Seq No: 7183680							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium	39.96	2.10	42.03		95.1	75	125				
Chromium	42.66	2.10	42.03	1.799	97.2	75	125				
Copper	42.18	2.10	42.03	1.306	97.3	75	125				
Lead	44.17	4.20	42.03	4.584	94.2	75	125				
Selenium	40.17	4.20	42.03		95.6	75	125				
Silver	3.917	2.10	4.203		93.2	75	125				

Sample ID: 1611D75-003CMSD	Client ID: SB-31-2-1-2	Units: mg/Kg-dry	Prep Date: 11/19/2016	Run No: 330426							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 233240	Analysis Date: 11/21/2016	Seq No: 7183681							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	40.37	4.25	42.46		95.1	75	125	39.86	1.27	20	
Barium	42.76	4.25	42.46	2.674	94.4	75	125	42.38	0.880	20	
Cadmium	40.60	2.12	42.46		95.6	75	125	39.96	1.58	20	
Chromium	43.25	2.12	42.46	1.799	97.6	75	125	42.66	1.36	20	
Copper	42.45	2.12	42.46	1.306	96.9	75	125	42.18	0.644	20	
Lead	44.43	4.25	42.46	4.584	93.9	75	125	44.17	0.590	20	
Selenium	40.36	4.25	42.46		95.1	75	125	40.17	0.472	20	
Silver	3.994	2.12	4.246		94.1	75	125	3.917	1.92	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233243

Sample ID: MB-233243	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330242							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233243	Analysis Date: 11/18/2016	Seq No: 7180594							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233243

Sample ID: MB-233243	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330242							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233243	Analysis Date: 11/18/2016	Seq No: 7180594							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	45.91	0	50.00		91.8	66.1	129				
Surr: Dibromofluoromethane	50.83	0	50.00		102	83.6	123				
Surr: Toluene-d8	49.60	0	50.00		99.2	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233243

Sample ID: LCS-233243	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330242							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233243	Analysis Date: 11/18/2016	Seq No: 7180593							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.12	5.0	50.00		108	68	139				
Benzene	51.59	5.0	50.00		103	74	125				
Chlorobenzene	48.90	5.0	50.00		97.8	75.7	123				
Toluene	52.85	5.0	50.00		106	75.9	126				
Trichloroethene	50.23	5.0	50.00		100	70.6	129				
Surr: 4-Bromofluorobenzene	46.23	0	50.00		92.5	66.1	129				
Surr: Dibromofluoromethane	50.45	0	50.00		101	83.6	123				
Surr: Toluene-d8	49.21	0	50.00		98.4	81.8	118				

Sample ID: 1611F44-001AMS	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330242							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233243	Analysis Date: 11/18/2016	Seq No: 7180602							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	562.1	50	500.0		112	64.3	149				
Benzene	523.0	50	500.0		105	71.6	132				
Chlorobenzene	497.7	50	500.0		99.5	73.1	126				
Toluene	539.2	50	500.0		108	72.5	135				
Trichloroethene	515.7	50	500.0		103	70.2	132				
Surr: 4-Bromofluorobenzene	455.3	0	500.0		91.1	66.1	129				
Surr: Dibromofluoromethane	492.7	0	500.0		98.5	83.6	123				
Surr: Toluene-d8	502.0	0	500.0		100	81.8	118				

Sample ID: 1611F44-001AMSD	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330242							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233243	Analysis Date: 11/18/2016	Seq No: 7180603							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	547.9	50	500.0		110	64.3	149	562.1	2.56	30.8	
Benzene	512.8	50	500.0		103	71.6	132	523.0	1.97	20.7	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233243

Sample ID: 1611F44-001AMSD	Client ID:	Units: ug/L	Prep Date: 11/18/2016	Run No: 330242							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 233243	Analysis Date: 11/18/2016	Seq No: 7180603							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	488.5	50	500.0		97.7	73.1	126	497.7	1.87	26.6	
Toluene	531.6	50	500.0		106	72.5	135	539.2	1.42	23.2	
Trichloroethene	504.6	50	500.0		101	70.2	132	515.7	2.18	27.7	
Surr: 4-Bromofluorobenzene	441.5	0	500.0		88.3	66.1	129	455.3	0	0	
Surr: Dibromofluoromethane	500.8	0	500.0		100	83.6	123	492.7	0	0	
Surr: Toluene-d8	498.1	0	500.0		99.6	81.8	118	502.0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233332

Sample ID: MB-233332	Client ID:	Units: mg/L	Prep Date: 11/19/2016	Run No: 330338							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 233332	Analysis Date: 11/20/2016	Seq No: 7181337							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									

Sample ID: LCS-233332	Client ID:	Units: mg/L	Prep Date: 11/19/2016	Run No: 330338							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 233332	Analysis Date: 11/20/2016	Seq No: 7181338							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.040	0.0500	1.000		104	80	120				
Barium	1.040	0.0200	1.000		104	80	120				
Cadmium	1.042	0.0050	1.000		104	80	120				
Chromium	1.031	0.0100	1.000		103	80	120				
Copper	1.037	0.0100	1.000		104	80	120				
Lead	1.037	0.0100	1.000		104	80	120				
Selenium	1.042	0.0200	1.000		104	80	120				
Silver	0.1043	0.0100	0.1000	0.0004648	104	80	120				

Sample ID: 1611F74-001AMS	Client ID:	Units: mg/L	Prep Date: 11/19/2016	Run No: 330338							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 233332	Analysis Date: 11/20/2016	Seq No: 7181340							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.026	0.0500	1.000		103	75	125				
Barium	0.9897	0.0200	1.000	0.01036	97.9	75	125				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233332

Sample ID: 1611F74-001AMS	Client ID:	Units: mg/L	Prep Date: 11/19/2016	Run No: 330338							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 233332	Analysis Date: 11/20/2016	Seq No: 7181340							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium	1.029	0.0050	1.000		103	75	125				
Chromium	0.9948	0.0100	1.000	0.001013	99.4	75	125				
Copper	1.010	0.0100	1.000	0.009022	100	75	125				
Lead	0.9791	0.0100	1.000		97.9	75	125				
Selenium	1.027	0.0200	1.000	0.01076	102	75	125				
Silver	0.1001	0.0100	0.1000	0.0003410	99.7	75	125				

Sample ID: 1611F74-001AMSD	Client ID:	Units: mg/L	Prep Date: 11/19/2016	Run No: 330338							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 233332	Analysis Date: 11/20/2016	Seq No: 7181341							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.021	0.0500	1.000		102	75	125	1.026	0.484	20	
Barium	0.9837	0.0200	1.000	0.01036	97.3	75	125	0.9897	0.617	20	
Cadmium	1.027	0.0050	1.000		103	75	125	1.029	0.231	20	
Chromium	0.9886	0.0100	1.000	0.001013	98.8	75	125	0.9948	0.621	20	
Copper	1.003	0.0100	1.000	0.009022	99.4	75	125	1.010	0.678	20	
Lead	0.9699	0.0100	1.000		97.0	75	125	0.9791	0.938	20	
Selenium	1.032	0.0200	1.000	0.01076	102	75	125	1.027	0.429	20	
Silver	0.09930	0.0100	0.1000	0.0003410	99.0	75	125	0.1001	0.784	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: 233463

Sample ID: LCS-233463	Client ID:	Units: pH Units	Prep Date: 11/21/2016	Run No: 330465							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 233463	Analysis Date: 11/22/2016	Seq No: 7184660							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH	7.000	0.01	7.000		100	90	110				H
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Sample ID: 1611D75-008DDUP	Client ID: SB-5/12-2-3	Units: pH Units	Prep Date: 11/21/2016	Run No: 330465							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 233463	Analysis Date: 11/22/2016	Seq No: 7184671							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH	6.190	0.01						6.210	0.323	10	H
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Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Resolute Env. & Water Resources Consulting, LLC
Project Name: Troutman Sanders Plant Kraft
Workorder: 1611D75

ANALYTICAL QC SUMMARY REPORT

BatchID: R330397

Sample ID: LCS-R330397	Client ID:	Units: pH Units	Prep Date:	Run No: 330397							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9040C	BatchID: R330397	Analysis Date: 11/21/2016	Seq No: 7182678							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 6.950 0.01 7.000 99.3 90 110

Sample ID: 1611D75-009CDUP	Client ID: GW-5/12	Units: pH Units	Prep Date:	Run No: 330397							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9040C	BatchID: R330397	Analysis Date: 11/21/2016	Seq No: 7182692							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 6.100 0.01 6.140 0.654 10 H

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1703R09

Date: 3/29/17 Page 1 of 1

Form containing company information (Georgia Power Company), sample details (55-02, APC5-05, ASTCS-06, etc.), analysis requested, preservation codes, and receipt information.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: SS-02
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 9:00:00 AM
Lab ID: 1703R09-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.91		mg/Kg-dry	240283	1	03/31/2017 01:37	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.7	0		wt%	R339759	1	03/31/2017 09:00	BD


Qualifiers:


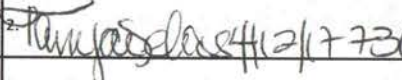
- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



CHAIN OF CUSTODY

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308</u>			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers
PHONE: <u>770-296-9648</u>		EMAIL: <u>forrest.howard@resoluteenv.com</u>			PRESERVATION (see codes)							
SAMPLED BY: <u>Forrest Howard</u>		SIGNATURE: 			REMARKS							
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)						
		DATE	TIME									
1	<u>SS-03</u>	<u>4/11/17</u>	<u>11:30</u>		<u>X</u>	<u>SO</u>	<u>X</u>					
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION				RECEIPT	
1. 		<u>4/11/17 1700</u>		1. <u>To factory</u>				PROJECT NAME: <u>Plant Kraft Excavation</u>				Total # of Containers	
2.				2. 		<u>4/12/17 730</u>		PROJECT #: _____				Turnaround Time (TAT) Request	
3.				3.				SITE ADDRESS: <u>Plant Kraft, Pentworth GA</u>				<input type="checkbox"/> Standard 5 Business Days	
SPECIAL INSTRUCTIONS/COMMENTS: Report to: <u>Stephen Wilson @ Resolute env.com</u> <u>IL Miller, southern co, com</u> <u>Forrest Howard @ Resolute env.com</u>		SHIPMENT METHOD		OUT: <u>1/1</u>		VIA: _____		SEND REPORT TO: <u>In comments</u>				<input type="checkbox"/> 2 Business Day Rush	
				IN: <u>1/1</u>		VIA: _____		INVOICE TO: <u>GA Power Environmental Affairs</u> (IF DIFFERENT FROM ABOVE)				<input type="checkbox"/> Next Business Day Rush	
		client <u>FedEx</u>		UPS		US mail		QUOTE #: _____				<input checked="" type="checkbox"/> Same-Day Rush (auth req.)	
		other: _____						PO#: _____				<input type="checkbox"/> Other _____	
								STATE PROGRAM (if any): _____				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
												DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: HH+ = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 14-Apr-17

Client: Georgia Power Company	Client Sample ID: SS-03
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 11:30:00 AM
Lab ID: 1704917-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B								
					(SW3050B)			
Arsenic	BRL	8.63		mg/Kg-dry	240900	1	04/12/2017 17:19	JS
PERCENT MOISTURE D2216								
Percent Moisture	14.3	0		wt%	R340535	1	04/12/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Aug-17

Client: Georgia Power Company	Client Sample ID: SS-29
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 1:00:00 PM
Lab ID: 1708898-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A				(SW7470A)				
Mercury	BRL	0.00400		mg/L	246759	1	08/10/2017 15:52	AS
ICP METALS, TCLP SW1311/6010C				(SW3010A)				
Arsenic	BRL	0.250		mg/L	246755	1	08/10/2017 14:58	IO
Barium	BRL	0.500		mg/L	246755	1	08/10/2017 14:58	IO
Cadmium	BRL	0.0250		mg/L	246755	1	08/10/2017 14:58	IO
Chromium	BRL	0.0500		mg/L	246755	1	08/10/2017 14:58	IO
Lead	BRL	0.0500		mg/L	246755	1	08/10/2017 14:58	IO
Selenium	BRL	0.100		mg/L	246755	1	08/10/2017 14:58	IO
Silver	BRL	0.0250		mg/L	246755	1	08/10/2017 14:58	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



March 31, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1703R09

Analytical Environmental Services, Inc. received 5 samples on 3/30/2017 10:40:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1703R09

Date: 3/29/17 Page 1 of 1

Form containing company information (Georgia Power Company), sample details (55-02, APC5-05, ASTCS-06, etc.), analysis requested, preservation codes, and receipt information.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: SS-02
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 9:00:00 AM
Lab ID: 1703R09-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	6.91		mg/Kg-dry	240283	1	03/31/2017 01:37	JR
PERCENT MOISTURE D2216								
Percent Moisture	14.7	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: APCS-05
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:15:00 PM
Lab ID: 1703R09-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B					(SW3050B)			
Arsenic	BRL	7.13		mg/Kg-dry	240283	1	03/31/2017 01:40	JR
Barium	14.8	0.48		mg/Kg-dry	240283	1	03/31/2017 18:44	JS
Beryllium	0.06	0.05		mg/Kg-dry	240283	1	03/31/2017 18:44	JS
PERCENT MOISTURE D2216								
Percent Moisture	8.14	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-06
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:30:00 PM
Lab ID: 1703R09-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	7.58		mg/Kg-dry	240283	1	03/31/2017 01:43	JR
Barium	137	1.01		mg/Kg-dry	240283	2	03/31/2017 19:16	JS
Beryllium	0.54	0.05		mg/Kg-dry	240283	1	03/31/2017 18:50	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.8		mg/Kg-dry	240302	1	03/30/2017 22:54	RF
Surr: Dioctylphthalate	84.6	54.5-121		%REC	240302	1	03/30/2017 22:54	RF
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-07
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:35:00 PM
Lab ID: 1703R09-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	10.2	6.93		mg/Kg-dry	240283	1	03/31/2017 16:03	JR
Barium	29.4	0.46		mg/Kg-dry	240283	1	03/31/2017 18:56	JS
Beryllium	0.29	0.05		mg/Kg-dry	240283	1	03/31/2017 18:56	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	240302	1	03/30/2017 22:07	RF
Surr: Dioctylphthalate	76.3	54.5-121		%REC	240302	1	03/30/2017 22:07	RF
PERCENT MOISTURE D2216								
Percent Moisture	15.2	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Mar-17

Client: Georgia Power Company	Client Sample ID: ASTCS-08
Project Name: Plant Kraft Excavation	Collection Date: 3/29/2017 1:40:00 PM
Lab ID: 1703R09-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B		(SW3050B)						
Arsenic	BRL	6.48		mg/Kg-dry	240283	1	03/31/2017 01:50	JR
Barium	21.9	0.43		mg/Kg-dry	240283	1	03/31/2017 19:02	JS
Beryllium	0.17	0.04		mg/Kg-dry	240283	1	03/31/2017 19:02	JS
DIESEL RANGE ORGANICS SW8015C		(SW3550C)						
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	240302	1	03/30/2017 22:31	RF
Surr: Dioctylphthalate	75.6	54.5-121		%REC	240302	1	03/30/2017 22:31	RF
PERCENT MOISTURE D2216								
Percent Moisture	19.4	0		wt%	R339759	1	03/31/2017 09:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 240283

Sample ID: MB-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339650							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428173							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500

Sample ID: MB-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339780							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium BRL 500
 Beryllium BRL 50.0

Sample ID: LCS-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339650							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428174							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5222 5000 5000 104 80 120

Sample ID: LCS-240283	Client ID:	Units: ug/Kg	Prep Date: 03/29/2017	Run No: 339780							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432286							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium 5020 500 5000 100 80 120
 Beryllium 4574 50.0 5000 91.5 80 120

Sample ID: 1703P26-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339650							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428177							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 8.102 6.24 4.158 3.740 105 75 125

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 240283

Sample ID: 1703P26-001AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339780							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432288							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	35.11	0.42	4.158	36.77	-40.0	75	125				S
Beryllium	4.128	0.04	4.158	0.2427	93.5	75	125				

Sample ID: 1703P26-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339650							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/30/2017	Seq No: 7428178							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	8.741	6.25	4.169	3.740	120	75	125	8.102	7.59	20	
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Sample ID: 1703P26-001AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/29/2017	Run No: 339780							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240283	Analysis Date: 03/31/2017	Seq No: 7432289							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	41.24	0.42	4.169	36.77	107	75	125	35.11	16.1	20	
Beryllium	4.078	0.04	4.169	0.2427	92.0	75	125	4.128	1.22	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1703R09

ANALYTICAL QC SUMMARY REPORT

BatchID: 240302

Sample ID: MB-240302	Client ID:	Units: mg/Kg	Prep Date: 03/30/2017	Run No: 339666							
SampleType: MBLK	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429770							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) BRL 6.7
 Surr: Dioctylphthalate 2.743 0 3.300 83.1 54.5 121

Sample ID: LCS-240302	Client ID:	Units: mg/Kg	Prep Date: 03/30/2017	Run No: 339666							
SampleType: LCS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429773							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 27.31 6.7 33.30 82.0 54.6 120
 Surr: Dioctylphthalate 2.626 0 3.330 78.9 54.5 121

Sample ID: 1703Q30-004BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 03/30/2017	Run No: 339666							
SampleType: MS	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429776							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 45.40 7.1 35.43 14.33 87.7 40.6 122
 Surr: Dioctylphthalate 2.748 0 3.543 77.6 54.5 121

Sample ID: 1703Q30-004BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 03/30/2017	Run No: 339666							
SampleType: MSD	TestCode: DIESEL RANGE ORGANICS SW8015C	BatchID: 240302	Analysis Date: 03/30/2017	Seq No: 7429777							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics) 46.80 7.1 35.43 14.33 91.6 40.6 122 45.40 3.03 29.9
 Surr: Dioctylphthalate 3.010 0 3.543 85.0 54.5 121 2.748 0 0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



April 14, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

TEL: (404) 506-1367
FAX: (404) 506-1499

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1704917

Analytical Environmental Services, Inc. received 1 samples on 4/12/2017 7:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

Tyrel Heckendorf
Project Manager



CHAIN OF CUSTODY

COMPANY: <u>Georgia Power Company</u>		ADDRESS: <u>241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308</u>			ANALYSIS REQUESTED						Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers	
PHONE: <u>770-296-9648</u>		EMAIL: <u>forrest.howard@resoluteenv.com</u>			PRESERVATION (see codes)									
SAMPLED BY: <u>Forrest Howard</u>		SIGNATURE:			REMARKS									
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)							
		DATE	TIME				I							
1	<u>SS-03</u>	<u>4/11/17</u>	<u>11:30</u>		<u>X</u>	<u>SO</u>	<u>X</u>							
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY:		DATE/TIME: <u>4/11/17 1700</u>	RECEIVED BY: <u>To factory</u>	DATE/TIME: <u>4/12/17 730</u>	PROJECT INFORMATION		RECEIPT	
1.			2.		PROJECT NAME: <u>Plant Kraft Excavation</u>	Total # of Containers		
3.			3.		PROJECT #: _____	Turnaround Time (TAT) Request		
SPECIAL INSTRUCTIONS/COMMENTS: Report to: Stephen Wilson @ Resolute env.com L.L. Miller, southern co. com forrest.howard @ Resoluteenv.com		SHIPMENT METHOD			SITE ADDRESS: <u>Plant Kraft, Perimeter GA</u>	<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input checked="" type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____		
		OUT: <u>1/1</u> VIA: _____ IN: <u>1/1</u> VIA: _____ client <u>FedEx</u> UPS US mail courier Greyhound other: _____			SEND REPORT TO: <u>In comments</u>	STATE PROGRAM (if any): _____		
					INVOICE TO: <u>GA Power Environmental Affairs</u> (IF DIFFERENT FROM ABOVE)	E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>		
					QUOTE #: _____ PO#: _____	DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>		

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: HH+ = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 14-Apr-17

Client: Georgia Power Company	Client Sample ID: SS-03
Project Name: Plant Kraft Excavation	Collection Date: 4/11/2017 11:30:00 AM
Lab ID: 1704917-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Metals by ICP/MS SW6020B								
					(SW3050B)			
Arsenic	BRL	8.63		mg/Kg-dry	240900	1	04/12/2017 17:19	JS
PERCENT MOISTURE D2216								
Percent Moisture	14.3	0		wt%	R340535	1	04/12/2017 08:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1704917

ANALYTICAL QC SUMMARY REPORT

BatchID: 240900

Sample ID: MB-240900	Client ID:	Units: ug/Kg	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MBLK	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453501							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 7500

Sample ID: LCS-240900	Client ID:	Units: ug/Kg	Prep Date: 04/12/2017	Run No: 340568							
SampleType: LCS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453502							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4317 1000 5000 199.8 82.3 80 120

Sample ID: 1704917-001AMS	Client ID: SS-03	Units: mg/Kg-dry	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MS	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453504							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.694 7.69 5.492 2.373 96.9 75 125

Sample ID: 1704917-001AMSD	Client ID: SS-03	Units: mg/Kg-dry	Prep Date: 04/12/2017	Run No: 340568							
SampleType: MSD	TestCode: Metals by ICP/MS SW6020B	BatchID: 240900	Analysis Date: 04/12/2017	Seq No: 7453505							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 7.405 7.32 5.230 2.373 96.2 75 125 7.694 3.83 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 10, 2017

Leah Millet
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta GA 30308

RE: Plant Kraft Excavation

Dear Leah Millet:

Order No: 1708898

Analytical Environmental Services, Inc. received 1 samples on 8/9/2017 11:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf
Project Manager

Client: Georgia Power Company

Project: Plant Kraft Excavation

Lab ID: 1708898

Case Narrative

Due to the prep requirements of EPA method 1311 TCLP, the sample was analyzed on a next day TAT.

Analytical Environmental Services, Inc

Date: 10-Aug-17

Client: Georgia Power Company	Client Sample ID: SS-29
Project Name: Plant Kraft Excavation	Collection Date: 8/8/2017 1:00:00 PM
Lab ID: 1708898-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A				(SW7470A)				
Mercury	BRL	0.00400		mg/L	246759	1	08/10/2017 15:52	AS
ICP METALS, TCLP SW1311/6010C				(SW3010A)				
Arsenic	BRL	0.250		mg/L	246755	1	08/10/2017 14:58	IO
Barium	BRL	0.500		mg/L	246755	1	08/10/2017 14:58	IO
Cadmium	BRL	0.0250		mg/L	246755	1	08/10/2017 14:58	IO
Chromium	BRL	0.0500		mg/L	246755	1	08/10/2017 14:58	IO
Lead	BRL	0.0500		mg/L	246755	1	08/10/2017 14:58	IO
Selenium	BRL	0.100		mg/L	246755	1	08/10/2017 14:58	IO
Silver	BRL	0.0250		mg/L	246755	1	08/10/2017 14:58	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708898

ANALYTICAL QC SUMMARY REPORT

BatchID: 246755

Sample ID: MB-246755	Client ID:	Units: mg/L	Prep Date: 08/10/2017	Run No: 349497							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 246755	Analysis Date: 08/10/2017	Seq No: 7680056							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250									
Barium	BRL	0.500									
Cadmium	BRL	0.0250									
Chromium	BRL	0.0500									
Lead	BRL	0.0500									
Selenium	BRL	0.100									
Silver	BRL	0.0250									

Sample ID: LCS-246755	Client ID:	Units: mg/L	Prep Date: 08/10/2017	Run No: 349497							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 246755	Analysis Date: 08/10/2017	Seq No: 7680058							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4.903	0.250	5.000		98.1	80	120				
Barium	4.573	0.500	5.000		91.5	80	120				
Cadmium	4.754	0.0250	5.000		95.1	80	120				
Chromium	4.664	0.0500	5.000		93.3	80	120				
Lead	4.548	0.0500	5.000		91.0	80	120				
Selenium	4.962	0.100	5.000		99.2	80	120				
Silver	0.4620	0.0250	0.5000		92.4	80	120				

Sample ID: 1702159-014BMS	Client ID:	Units: mg/L	Prep Date: 08/10/2017	Run No: 349497							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 246755	Analysis Date: 08/10/2017	Seq No: 7680063							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4.824	0.250	5.000		96.5	50	150				
Barium	4.968	0.500	5.000	0.4228	90.9	50	150				
Cadmium	4.667	0.0250	5.000		93.3	50	150				
Chromium	4.582	0.0500	5.000		91.6	50	150				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708898

ANALYTICAL QC SUMMARY REPORT

BatchID: 246755

Sample ID: 1702159-014BMS	Client ID:	Units: mg/L	Prep Date: 08/10/2017	Run No: 349497							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 246755	Analysis Date: 08/10/2017	Seq No: 7680063							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	4.446	0.0500	5.000		88.9	50	150				
Selenium	4.869	0.100	5.000		97.4	50	150				
Silver	0.4539	0.0250	0.5000		90.8	50	150				

Sample ID: 1702159-014BMSD	Client ID:	Units: mg/L	Prep Date: 08/10/2017	Run No: 349497							
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 246755	Analysis Date: 08/10/2017	Seq No: 7680066							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4.939	0.250	5.000		98.8	50	150	4.824	2.35	30	
Barium	5.020	0.500	5.000	0.4228	92.0	50	150	4.968	1.04	30	
Cadmium	4.754	0.0250	5.000		95.1	50	150	4.667	1.84	30	
Chromium	4.660	0.0500	5.000		93.2	50	150	4.582	1.69	30	
Lead	4.573	0.0500	5.000		91.5	50	150	4.446	2.81	30	
Selenium	5.018	0.100	5.000		100	50	150	4.869	3.00	30	
Silver	0.4610	0.0250	0.5000		92.2	50	150	0.4539	1.56	30	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Georgia Power Company
Project Name: Plant Kraft Excavation
Workorder: 1708898

ANALYTICAL QC SUMMARY REPORT

BatchID: 246759

Sample ID: MB-246759	Client ID:	Units: mg/L	Prep Date: 08/10/2017	Run No: 349516							
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 246759	Analysis Date: 08/10/2017	Seq No: 7680579							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400

Sample ID: LCS-246759	Client ID:	Units: mg/L	Prep Date: 08/10/2017	Run No: 349516							
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 246759	Analysis Date: 08/10/2017	Seq No: 7680582							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04090 0.00400 0.0400 0.0006625 101 80 120

Sample ID: 1708396-001AMS	Client ID:	Units: mg/L	Prep Date: 08/10/2017	Run No: 349516							
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 246759	Analysis Date: 08/10/2017	Seq No: 7680585							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04150 0.00400 0.0400 104 80 120

Sample ID: 1708396-001AMSD	Client ID:	Units: mg/L	Prep Date: 08/10/2017	Run No: 349516							
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 246759	Analysis Date: 08/10/2017	Seq No: 7680586							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04244 0.00400 0.0400 106 80 120 0.04150 2.23 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Analytical Environmental Services, Inc

Date: 15-May-17

Client: Georgia Power Company	Client Sample ID: MR-01
Project Name: Plant Kraft Excavation	Collection Date: 5/10/2017 10:15:00 AM
Lab ID: 1705A42-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	0.561	0.101		mg/Kg-dry	242504	1	05/12/2017 16:17	AS
Metals by ICP/MS SW6020B					(SW3050B)			
Antimony	0.73	0.64		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Arsenic	161	63.7		mg/Kg-dry	242467	50	05/12/2017 16:30	JR
Barium	140	0.42		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Beryllium	0.69	0.04		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Cadmium	0.07	0.04		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Chromium	13.3	4.24		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Copper	24.4	0.42		mg/Kg-dry	242467	5	05/12/2017 19:09	JR
Lead	23.6	0.21		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Nickel	8.99	1.06		mg/Kg-dry	242467	5	05/12/2017 19:09	JR
Selenium	6.78	1.06		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Silver	0.05	0.04		mg/Kg-dry	242467	5	05/12/2017 19:09	JR
Thallium	1.67	0.21		mg/Kg-dry	242467	5	05/12/2017 15:09	JR
Zinc	59.4	2.12		mg/Kg-dry	242467	5	05/12/2017 19:09	JR
PERCENT MOISTURE D2216								
Percent Moisture	5.88	0		wt%	R342962	1	05/12/2017 07:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit