NCSU Lot 86

CITY OF RALEIGH INDUSTRIAL PRETREATMENT MONITORING REPORT

MONTHLY FACILITY STATUS SHEET Effective January 1, 2008

All monitoring data and sampling frequencies meet permit requirements. ☒ Compliant

All monitoring data and sampling frequencies DO NOT meet permit requirements. ☐ Noncompliant

If non-compliant, did you notify control authority within 24 hours of becoming aware of violations? ☐ yes ☐ no

If non-compliant, did you resample within one week of becoming aware of the violation? ☐ yes ☐ no

All required monitoring has been conducted. ☒ yes ☐ no

Are copies of laboratory report, chain of custody form(s), and Industrial Data Summary Form attached. ☒ Yes ☐ No

If facility is noncompliant or did not resample within one week, please comment on corrective actions being taken in respect to equipment, operation, maintenance, etc., and a time table for improvements to be made and/or why re-sampling did not occur within one week of becoming aware of the violation(s).

_____

_____

_____

_____

_____

" I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

Furthermore, based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for Locally Regulated Organic Compounds (LROC) or Total Toxic Organics(TTO), I certify that, to the best of my knowledge, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the City of Raleigh Industrial Pretreatment Program.

Kenneth Kretchman

Permittee (Please type or print name of permittee)

(Please note Permittee and Delegated Person may not be the same person.)

Kenneth Kretchman 6/2/16

Signature of Permittee or Delegated Person Date

*If signed by other than permittee, delegation of signatory authority must be on file with the City."

Note: Do not sign this report unless the City has a letter of signatory authority on file noting authority has been delegated.

City of Raleigh - Industrial Data Monitoring Form

Industry Name: NCSU Lot 86

Date: 6/1/2016

IUP# WOLFFIN

Pipe # 01

Data for Month: **May 2016**

Neuse River Wastewater Treatment Plant

NPDES Permit # NC 0029033

Date		Flow MGD	pH (s.u.)	Mercury 1631 LL (ug/L)	As (ug/L)	Cu (ug/L)	Fe (ug/L)	Pb (ug/L)	Zn (ug/L)	Mn (ug/L)	Mo (ug/L)	Se (ug/L)	Ag (ug/L)	Cd (ug/L)	Cr (ug/L)	Ni (ug/L)	Benzene (ug/L)
	Limits	0.0120	6.0-11.0	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
	Frequency	Each sampling event	Each sampling event	1/month	1/2month	1/2month	1/2month	1/2month	1/2month	1/2month	1/6month	1/6month	1/6month	1/6month	1/6month	1/6month	1/month
5/3/16		0.00877	7.8	0.011													<1.00

City of Raleigh - Industrial Data Monitoring Form

Carbon Tetrachloride (ug/L)	Toluene (ug/L)	1,1,2,2 - Tetrachloroethane (ug/L)	Trichloroethene (ug/L)	Chloroform (ug/L)	1,2 - Dibromoethane (ug/L)	1,2 - Dichloropropane (ug/L)	Tetrachloroethene (ug/L)	1,4 - Dioxane (ug/L)	Tritium (pCi/L)	Gross Beta (pCi/L)
Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
1/month	1/month	1/month	1/month	1/month	1/month	1/month	1/month	1/month		
<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	1,020	1,580	1.48

ANALYTICAL REPORT

May 11, 2016

Piedmont Geologic

Sample Delivery Group:	L833292
Samples Received:	05/04/2016
Project Number:	1535
Description:	NCSU Lot 86 - Water Treatment System Monitoring
Site:	RALEIGH, NC
Report To:	Mr. Pete Dressel 6003 Chapel Hill Road Suite 145 Raleigh, NC 27607

Entire Report Reviewed By: Brian Ford

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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GWE EFFLUENT L833292-01 GW

Collected by	Collected date/time	Received date/time
P. Dressel	05/03/16 10:45	05/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG871181	1	05/10/16 18:46	05/10/16 18:46	DAH

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford

Brian Ford
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	05/10/2016 18:46	WG871181
Carbon tetrachloride	ND		1.00	1	05/10/2016 18:46	WG871181
Chloroform	ND		5.00	1	05/10/2016 18:46	WG871181
1,2-Dibromoethane	ND		1.00	1	05/10/2016 18:46	WG871181
1,2-Dichloropropane	ND		1.00	1	05/10/2016 18:46	WG871181
1,1,2,2-Tetrachloroethane	ND		1.00	1	05/10/2016 18:46	WG871181
Tetrachloroethene	ND		1.00	1	05/10/2016 18:46	WG871181
Toluene	ND		5.00	1	05/10/2016 18:46	WG871181
Trichloroethene	ND		1.00	1	05/10/2016 18:46	WG871181
1,4-Dioxane	1020		100	1	05/10/2016 18:46	WG871181
(S) Toluene-d8	*99.7*		*90.0-115*		*05/10/2016 18:46*	WG871181
(S) Dibromofluoromethane	*98.2*		*79.0-121*		*05/10/2016 18:46*	WG871181
(S) α,α,α-Trifluorotoluene	*96.7*		*90.4-116*		*05/10/2016 18:46*	WG871181
(S) 4-Bromofluorobenzene	*88.6*		*80.1-120*		*05/10/2016 18:46*	WG871181

Method Blank (MB)

(MB) R3135408-3 05/10/16 10:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
Carbon tetrachloride	U		0.379	1.00
Chloroform	U		0.324	5.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.780	5.00
Trichloroethene	U		0.398	1.00
1,4-Dioxane	U		36.0	100
(S) Toluene-d8	*98.5*			*90.0-115*
(S) Dibromofluoromethane	*97.3*			*79.0-121*
(S) a,a,a-Trifluorotoluene	*95.8*			*90.4-116*
(S) 4-Bromofluorobenzene	*87.0*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3135408-1 05/10/16 08:46 • (LCSD) R3135408-2 05/10/16 09:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	23.2	22.5	92.6	90.1	73.0-122			2.78	20
Carbon tetrachloride	25.0	19.8	18.6	79.2	74.3	70.9-129			6.35	20
Chloroform	25.0	21.8	21.2	87.1	85.0	73.2-125			2.44	20
1,2-Dibromoethane	25.0	23.9	24.5	95.7	98.1	79.8-122			2.41	20
1,2-Dichloropropane	25.0	26.0	25.5	104	102	77.4-125			1.99	20
1,1,2,2-Tetrachloroethane	25.0	24.0	23.8	95.9	95.0	79.3-123			0.890	20
Tetrachloroethene	25.0	24.2	23.7	96.8	94.8	73.5-130			2.08	20
Toluene	25.0	22.8	22.2	91.3	88.7	77.9-116			2.88	20
Trichloroethene	25.0	23.6	23.1	94.2	92.3	79.5-121			2.05	20
(S) Toluene-d8				*98.5*	*98.3*	*90.0-115*				
(S) Dibromofluoromethane				*98.4*	*96.7*	*79.0-121*				
(S) a,a,a-Trifluorotoluene				*97.7*	*92.8*	*90.4-116*				
(S) 4-Bromofluorobenzene				*86.3*	*86.4*	*80.1-120*				

QUALITY CONTROL SUMMARY

L833292-01

L834157-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L834157-07 05/10/16 18:05 • (MS) R3135408-4 05/10/16 16:22 • (MSD) R3135408-5 05/10/16 16:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	U	25.0	23.5	99.8	93.9	1	58.6-133			6.08	20
Carbon tetrachloride	25.0	U	20.8	19.8	83.0	79.3	1	60.6-139			4.65	20
Chloroform	25.0	U	23.6	22.4	94.4	89.5	1	66.1-133			5.38	20
1,2-Dibromoethane	25.0	U	26.9	25.0	107	99.9	1	73.8-131			7.36	20
1,2-Dichloropropane	25.0	U	28.0	25.7	112	103	1	69.7-130			8.50	20
1,1,2,2-Tetrachloroethane	25.0	U	27.5	25.8	110	103	1	64.9-145			6.45	20
Tetrachloroethene	25.0	U	25.9	24.5	104	98.0	1	57.4-141			5.60	20
Toluene	25.0	U	24.9	23.5	99.8	93.8	1	67.8-124			6.13	20
Trichloroethene	25.0	U	25.1	23.4	100	93.7	1	48.9-148			6.88	20
(S) Toluene-d8					*98.0*	*98.7*		*90.0-115*				
(S) Dibromofluoromethane					*96.9*	*97.1*		*79.0-121*				
(S) a,a,a-Trifluorotoluene					*95.9*	*95.5*		*90.4-116*				
(S) 4-Bromofluorobenzene					*85.9*	*86.6*		*80.1-120*				

GLOSSARY OF TERMS

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**

Piedmont Geologic

6003 Chapel Hill Road Suite 145
Raleigh, NC 27607

Billing Information:
Accounts Payable
6003 Chapel Hill Rd Ste 145
Raleigh, NC 27607

Report to: Mr. Pete Dressel

Email To: pjdressel@piedmontgeologic.com

Project Description: NCSU Lot 86 - Water Treatment System Mon

City/State Collected: RALEIGH, NC

Phone: 919-854-9700
Fax: 919-854-9532

Client Project #: 1535

Lab Project #: PIEGEO-NCSU LOT 86

Collected by (print): P. DRESSEL

Site/Facility ID #: RALEIGH, NC

P.O. #: 1347

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L833292

H054

Acctnum: PIEGEO
Template: T82912
Prelogin: P550618
TSR: 110 - Brian Ford
PB: 4-22-16 Gm
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	HG1631 250mlCir-HCl	V8260AP9 40mlAmb-HCl	Rem./Contaminant	Sample # (lab only)
GWE EFFLUENT	GRAB	GW	-	5-3-16	1045	2		X		-01
GWE EFFLUENT	↓	GW	-	↓	1045	1	X			
FIELD BLANK	↓	GW	-	↓	1042	1	X			

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: V8260AP9 = Benzene, CCl4, Toluene, 1122-TCA, TCE, Chloroform, EDB, 12-DCPA, PCE, 14-Dioxane
PIEGEO080513S

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
[signature]	5/3/16	14:15	[signature]
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
[signature]			
Relinquished by : (Signature)	Date: 5/3/16	Time: 1550	Received for lab by: (Signature) [signature]

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☑ Sun

Temp: 1.8 °C Bottles Received: 4

Date: 5/4/16 Time: 0900

Hold #

Condition: NO312 OK (lab use only)

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

ANALYTICAL REPORT

May 18, 2016

ESC LAB SCIENCES — YOUR LAB OF CHOICE

myESC — REAL TIME DATA ACCESS

Piedmont Geologic

Sample Delivery Group:	L833293
Samples Received:	05/04/2016
Project Number:	1535
Description:	NCSU Lot 86 - Water Treatment System Monitoring
Site:	RALEIGH, NC
Report To:	Mr. Pete Dressel 6003 Chapel Hill Road Suite 145 Raleigh, NC 27607

Entire Report Reviewed By: Brian Ford

Brian Ford
Technical Service Representative

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford

Brian Ford
Technical Service Representative

Project Narrative

L833293 -01, -02 contains subout data that is included after the chain of custody.

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ACCREDITATIONS & LOCATIONS

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State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

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Email To: pjdressel@piedmontgeologic.com

Project Description: NCSU Lot 86 - Water Treatment System Mon

City/State Collected: RALEIGH, NC

Phone: 919-854-9700
Fax: 919-854-9532

Client Project # 1535

Lab Project # PIEGEO-NCSU LOT 86

Collected by (print): P. DRESSEL

Site/Facility ID # RALEIGH, NC

P.O. # 1347

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LABS

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L733293

H054

Acctnum: PIEGEO
Template: T82912
Prelogin: P550618
TSR: 110 - Brian Ford
PB: 4-22-16 Gm
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	HG1631 250mlClr-HCl	V8260AP9 40mlAmb-HCl									Rem./Contaminant	Sample # (lab only)
GWE EFFLUENT	GRAB	GW	–	5-3-16	1045	2		X										–
GWE EFFLUENT	↓	GW	–	↓	1045	1	X											-01
FIELD BLANK	↓	GW	–	↓	1042	1	X											-02

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:V8260AP9 = Benzene, CCl4, Toluene, 1122-TCA, TCE, Chloroform, EDB, 12-DCPA, PCE, 14-Dioxane
PIEGEO080513S

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☑ Sub	Condition: (lab use only)
[signature]	5/3/16	14:15	[signature]		70312 OK
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.8 °C Bottles Received: 4	COC Seal Intact: ✓ Y ___N ___NA
Relinquished by : (Signature) [signature]	Date: 5/3/16	Time: 1650	Received for lab by: (Signature) [signature]	Date: 5/4/16 Time: 0900	pH Checked: NCF:

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

May 16, 2016

Ms. Janice Cozby
Environmental Science Corporation
12065 Lebanon Road
Mount Juliet, Tennessee 37122

Re: Low Level Mercury Analysis
Work Order: 396786

Dear Ms. Cozby:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 05, 2016. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

Julie Robinson
Project Manager

Purchase Order: S23691
Chain of Custody: WG869921
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

ENVL001 Environmental Science Corporation

Client SDG: 396786 GEL Work Order: 396786

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by Julie Robinson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 16, 2016

Company :	Environmental Science Corporation
Address :	12065 Lebanon Road
	Mount Juliet, Tennessee 37122
Contact:	Ms. Janice Cozby
Project:	Low Level Mercury Analysis

Client Sample ID:	L833293-01 Effluent	Project:	ENVL00116
Sample ID:	396786001	Client ID:	ENVL001
Matrix:	Ground Water		
Collect Date:	03-MAY-16 10:45		
Receive Date:	05-MAY-16		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
EPA 1631 Low Level Mercury Analysis "As Received"											
Mercury		11.0	0.200	0.500	ng/L	1	LYG1	05/06/16	1213	1565336	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1631E	

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 16, 2016

Company :	Environmental Science Corporation
Address :	12065 Lebanon Road
	Mount Juliet, Tennessee 37122
Contact:	Ms. Janice Cozby
Project:	Low Level Mercury Analysis

Client Sample ID:	L833293-02 FB	Project:	ENVL00116
Sample ID:	396786002	Client ID:	ENVL001
Matrix:	BLANK		
Collect Date:	03-MAY-16 10:42		
Receive Date:	05-MAY-16		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
EPA 1631 Low Level Mercury Analysis "As Received"											
Mercury	U	<0.2	0.200	0.500	ng/L	1	LYG1	05/06/16	1152	1565336	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 1631E	

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: May 16, 2016

Environmental Science Corporation
12065 Lebanon Road
Mount Juliet, Tennessee

Contact: **Ms. Janice Cozby**

Workorder: **396786**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 1565336										
QC1203543315 LCS										
Mercury	5.00			3.95	ng/L		79	(77%-123%)	LYG1	05/06/16 11:39
QC1203543314 MB										
Mercury			U	<0.2	ng/L					05/06/16 11:32
QC1203543316 396787001 MS										
Mercury	10.0	2.40		11.2	ng/L		88.1	(71%-125%)		05/06/16 13:47
QC1203543317 396787001 MSD										
Mercury	10.0	2.40		11.3	ng/L	1.06	89.3	(0%-24%)		05/06/16 13:53

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

QC Summary

Workorder: **396786**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

Sub-Contract Chain of Custody

Environmental Science Corp
12065 Lebanon Road
Mt. Juliet, TN 37122
(615) 773-9756 (615) 758-5859 fax

396786

Sub-Contract Lab : GEL
City / State : Charleston, SC
Results Needed by : 05/18/16
ESC Purchase Order # : S23691

WORKGROUP **WG869921**
Date Created : 05/04/16

Send Reports To : ____Janice Cozby jcozby@esclabsciences.com____

SAMPLENO Container #	MATRIX	Date / Time Collected	PARAMETER	Code	METHOD	Comments
L833293-01	GW	5/3 1045	Mercury	HG1631	1631E	effluent
S20328995 S20328995						
L833293-02	GW	1042	Mercury	HG1631	1631E	FB
S20328996 S20328996						

PIE GEO-NC SU

Relinquished by _____ Date: 5/4/16
Received by : _____ Date: 050516 0915
Relinquished by _____ Date: _____
Received by : _____ Date: _____

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: ENVL	SDG/AR/COC/Work Order: 3967866
Received By: Lisa Tola	Date Received: 050516

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts):
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Ice bags Blue ice Dry ice None Other (describe) 19 °C *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 41502132 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?			✓	Sample ID's, containers affected and observed pH: All If Preservation added, Lot#: pH>2
6	Do Low Level Perchlorate samples have headspace as required?		✓		Sample ID's and containers affected:
7	VOA vials contain acid preservation?		✓		(If unknown, select No)
8	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
9	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
10	Samples received within holding time?	✓			ID's and tests affected:
11	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
12	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
13	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
14	Are sample containers identifiable as GEL provided?			✓	
15	COC form is properly signed in relinquished/received sections?	✓			
16	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 6711 0338 5351

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JR Date 5-5-16 Page 1 of 1

GL-CHL-SR-001 Rev 3

List of current GEL Certifications as of 16 May 2016

State	Certification
Alaska	UST-0110
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC00012
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA160006
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122016-1
New Hampshire NELAP	205415
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania NELAP	68-00485
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-16-11
Utah NELAP	SC000122016-20
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-17231-1
Client Project/Site: NCSU Lot 86

For:
Piedmont Geologic P.C.
6003 Chapel Hill Road
Suite 145
Raleigh, North Carolina 27607

Attn: Pete Dressel

Rhonda Ridenhower

Authorized for release by:
5/18/2016 9:00:26 AM

Rhonda Ridenhower, Manager of Project Management
(314)298-8566
rhonda.ridenhower@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.testamericainc.com

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

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

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Job ID: 160-17231-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Piedmont Geologic P.C.

Project: NCSU Lot 86

Report Number: 160-17231-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/04/2016; the samples arrived in good condition, properly preserved. The temperature of the cooler at receipt was 18.0° C.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Sample GWE EFFLUENT (160-17231-1) was analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with USEPA Method 900.0. The samples were prepared on 05/10/2016 and analyzed on 05/15/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRITIUM, TOTAL (LSC)

Sample GWE EFFLUENT (160-17231-1) was analyzed for Tritium, Total (LSC) in accordance with USEPA 906.0. The samples were prepared on 05/12/2016 and analyzed on 05/13/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

160-17231 Chain of Custody

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: P. DRESSEL	Lab PM: Ridenhower, Rhonda E	Carrier Tracking No(s):	COC No: 160-2166-974.1
Client Contact: Pete Dressel	Phone: 919-854-9700	E-Mail: rhonda.ridenhower@testamericainc.com		Page: Page 1 of 2
Company: Piedmont Geologic P.C.				Job #:
Address: 6003 Chapel Hill Road Suite 145	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27607				
Phone: 919-864-9700(Tel)	PO #: Purchase Order not required			
Email: pjdressel@piedmontgeologic.com	WO #:			
Project Name: NCSU Lot 86-Quarterly Sampling	Project #: 16002172			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	906.0 - Tritium	900.0 - Gross Beta	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	N	D		X	
GWE EFFLUENT	5-3-16	1045	G	Water	N	N	X	X		
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
personal to Fed Ex	5-3-16	PG	[illegible]	5/4/16 0900	PG
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Login Sample Receipt Checklist

Client: Piedmont Geologic P.C.

Job Number: 160-17231-1

Login Number: 17231
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-17231-1

Qualifiers

Rad

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

Glossary

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

Method Summary

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-17231-1

Method	Method Description	Protocol	Laboratory
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
906.0	Tritium, Total (LSC)	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-17231-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-17231-1	GWE EFFLUENT	Water	05/03/16 10:45	05/04/16 09:10

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-17231-1

Client Sample ID: GWE EFFLUENT

Lab Sample ID: 160-17231-1

Date Collected: 05/03/16 10:45
Date Received: 05/04/16 09:10

Matrix: Water

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	1.48		0.626	0.643	4.00	0.873	pCi/L	05/10/16 14:44	05/15/16 16:22	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	1580		366	392	500	425	pCi/L	05/12/16 09:59	05/13/16 20:46	1

QC Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-17231-1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-250367/1-A
Matrix: Water
Analysis Batch: 251030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250367

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	0.04553	U	0.496	0.496	4.00	0.876	pCi/L	05/10/16 14:44	05/15/16 16:22	1

Lab Sample ID: LCSB 160-250367/3-A
Matrix: Water
Analysis Batch: 251030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250367

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	92.8	98.55		10.4	4.00	1.07	pCi/L	106	75 - 125

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-250848/1-A
Matrix: Water
Analysis Batch: 251226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250848

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-170.7	U	230	231	500	449	pCi/L	05/12/16 09:59	05/13/16 19:53	1

Lab Sample ID: LCS 160-250848/2-A
Matrix: Water
Analysis Batch: 251226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250848

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Tritium	4620	4405		662	500	447	pCi/L	95	74 - 114

QC Association Summary

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-17231-1

Rad

Prep Batch: 250367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-17231-1	GWE EFFLUENT	Total/NA	Water	Evaporation	
LCSB 160-250367/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-250367/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 250848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-17231-1	GWE EFFLUENT	Total/NA	Water	LSC_Dist_Susp	
LCS 160-250848/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
MB 160-250848/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	