

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

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Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-17317-1

Client Project/Site: Ramapo Landfill

Sampling Event: Private Wells

For:

Sterling Environmental Engineering PC

24 Wade Road

Latham, New York 12110

Attn: Ms. Elizabeth Davis



Authorized for release by:

3/29/2012 10:20:26 AM

Lisa Shaffer

Project Manager I

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

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Definitions/Glossary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Qualifiers

Metals

Qualifier	Qualifier Description
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the blank.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Job ID: 480-17317-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-17317-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

Metals

Method(s) 200.7 Rev 4.4: The Method Blank for batch 480-55599 contained total iron, potassium, and manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples PW-1 (480-17317-1), PW-2 (480-17317-2), DUP (480-17317-7), SVWC-93 (480-17317-3), SVWC-94 (480-17317-4), SVWC-96 (480-17317-5) was not performed.

No other analytical or quality issues were noted.

General Chemistry

Method(s) SM 2340C: The matrix spike (MS) recoveries for batch 56951 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.SVWC-93 (480-17317-3 MS)

No other analytical or quality issues were noted.

Detection Summary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: PW-1

Lab Sample ID: 480-17317-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.015		0.0020	0.00070	mg/L			1	200.7 Rev 4.4	Total/NA
Calcium	11.2	B7	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Copper	0.22		0.010	0.0016	mg/L			1	200.7 Rev 4.4	Total/NA
Iron	0.025	J B	0.050	0.019	mg/L			1	200.7 Rev 4.4	Total/NA
Lead	0.027		0.0050	0.0030	mg/L			1	200.7 Rev 4.4	Total/NA
Magnesium	2.8		0.20	0.043	mg/L			1	200.7 Rev 4.4	Total/NA
Manganese	0.0010	J B	0.0030	0.00040	mg/L			1	200.7 Rev 4.4	Total/NA
Nickel	0.0017	J	0.010	0.0013	mg/L			1	200.7 Rev 4.4	Total/NA
Potassium	1.9	B	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Sodium	53.9		1.0	0.32	mg/L			1	200.7 Rev 4.4	Total/NA
Zinc	0.16		0.010	0.0015	mg/L			1	200.7 Rev 4.4	Total/NA
Antimony	0.15	J	3.0	0.15	ug/L			1	200.8	Total/NA
Thallium	0.012	J	0.50	0.0080	ug/L			1	200.8	Total/NA
Alkalinity, Total	35.5		10.0	4.0	mg/L			1	310.2	Total/NA
Hardness as calcium carbonate	60.0		20.0	5.3	mg/L			1	SM 2340C	Total/NA

Client Sample ID: PW-2

Lab Sample ID: 480-17317-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.090	J	0.20	0.060	mg/L			1	200.7 Rev 4.4	Total/NA
Barium	0.0023		0.0020	0.00070	mg/L			1	200.7 Rev 4.4	Total/NA
Calcium	31.3	B7	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Copper	0.033		0.010	0.0016	mg/L			1	200.7 Rev 4.4	Total/NA
Iron	0.064	B	0.050	0.019	mg/L			1	200.7 Rev 4.4	Total/NA
Magnesium	3.6		0.20	0.043	mg/L			1	200.7 Rev 4.4	Total/NA
Manganese	0.0012	J B	0.0030	0.00040	mg/L			1	200.7 Rev 4.4	Total/NA
Nickel	0.0044	J	0.010	0.0013	mg/L			1	200.7 Rev 4.4	Total/NA
Potassium	1.2	B	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Sodium	8.7		1.0	0.32	mg/L			1	200.7 Rev 4.4	Total/NA
Zinc	0.038		0.010	0.0015	mg/L			1	200.7 Rev 4.4	Total/NA
Alkalinity, Total	62.0		10.0	4.0	mg/L			1	310.2	Total/NA
Hardness as calcium carbonate	120		20.0	5.3	mg/L			1	SM 2340C	Total/NA

Client Sample ID: SVWC-93

Lab Sample ID: 480-17317-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.079	J	0.20	0.060	mg/L			1	200.7 Rev 4.4	Total/NA
Barium	0.0059		0.0020	0.00070	mg/L			1	200.7 Rev 4.4	Total/NA
Calcium	17.2	B7	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Copper	0.0054	J	0.010	0.0016	mg/L			1	200.7 Rev 4.4	Total/NA
Magnesium	4.5		0.20	0.043	mg/L			1	200.7 Rev 4.4	Total/NA
Potassium	1.4	B	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Sodium	34.1		1.0	0.32	mg/L			1	200.7 Rev 4.4	Total/NA
Zinc	0.0043	J	0.010	0.0015	mg/L			1	200.7 Rev 4.4	Total/NA
Alkalinity, Total	37.4		10.0	4.0	mg/L			1	310.2	Total/NA
Hardness as calcium carbonate	100		20.0	5.3	mg/L			1	SM 2340C	Total/NA

Client Sample ID: SVWC-94

Lab Sample ID: 480-17317-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.21		0.20	0.060	mg/L			1	200.7 Rev 4.4	Total/NA
Barium	0.0089		0.0020	0.00070	mg/L			1	200.7 Rev 4.4	Total/NA
Calcium	17.6	B7	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Copper	0.0067	J	0.010	0.0016	mg/L			1	200.7 Rev 4.4	Total/NA

Detection Summary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: SVWC-94 (Continued)

Lab Sample ID: 480-17317-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Magnesium	4.5		0.20	0.043	mg/L			1	200.7 Rev 4.4	Total/NA
Potassium	1.3	B	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Sodium	34.0		1.0	0.32	mg/L			1	200.7 Rev 4.4	Total/NA
Zinc	0.0040	J	0.010	0.0015	mg/L			1	200.7 Rev 4.4	Total/NA
Antimony	0.80	J	3.0	0.15	ug/L			1	200.8	Total/NA
Thallium	0.015	J	0.50	0.0080	ug/L			1	200.8	Total/NA
Alkalinity, Total	41.6		10.0	4.0	mg/L			1	310.2	Total/NA
Hardness as calcium carbonate	80.0		20.0	5.3	mg/L			1	SM 2340C	Total/NA

Client Sample ID: SVWC-96

Lab Sample ID: 480-17317-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.32		0.20	0.060	mg/L			1	200.7 Rev 4.4	Total/NA
Barium	0.0071		0.0020	0.00070	mg/L			1	200.7 Rev 4.4	Total/NA
Calcium	16.9	B7	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Copper	0.0031	J	0.010	0.0016	mg/L			1	200.7 Rev 4.4	Total/NA
Iron	0.020	J B	0.050	0.019	mg/L			1	200.7 Rev 4.4	Total/NA
Magnesium	4.4		0.20	0.043	mg/L			1	200.7 Rev 4.4	Total/NA
Potassium	1.4	B	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Sodium	42.8		1.0	0.32	mg/L			1	200.7 Rev 4.4	Total/NA
Zinc	0.021		0.010	0.0015	mg/L			1	200.7 Rev 4.4	Total/NA
Antimony	0.35	J	3.0	0.15	ug/L			1	200.8	Total/NA
Thallium	0.0095	J	0.50	0.0080	ug/L			1	200.8	Total/NA
Alkalinity, Total	51.6		10.0	4.0	mg/L			1	310.2	Total/NA
Hardness as calcium carbonate	80.0		20.0	5.3	mg/L			1	SM 2340C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-17317-6

No Detections

Client Sample ID: DUP

Lab Sample ID: 480-17317-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.0059		0.0020	0.00070	mg/L			1	200.7 Rev 4.4	Total/NA
Calcium	17.2	B7	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Copper	0.0055	J	0.010	0.0016	mg/L			1	200.7 Rev 4.4	Total/NA
Magnesium	4.5		0.20	0.043	mg/L			1	200.7 Rev 4.4	Total/NA
Potassium	1.3	B	0.50	0.10	mg/L			1	200.7 Rev 4.4	Total/NA
Sodium	34.4		1.0	0.32	mg/L			1	200.7 Rev 4.4	Total/NA
Zinc	0.0027	J	0.010	0.0015	mg/L			1	200.7 Rev 4.4	Total/NA
Antimony	0.23	J	3.0	0.15	ug/L			1	200.8	Total/NA
Thallium	0.0081	J	0.50	0.0080	ug/L			1	200.8	Total/NA
Alkalinity, Total	36.6		10.0	4.0	mg/L			1	310.2	Total/NA
Hardness as calcium carbonate	80.0		20.0	5.3	mg/L			1	SM 2340C	Total/NA

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: PW-1

Lab Sample ID: 480-17317-1

Date Collected: 03/14/12 14:00

Matrix: Water

Date Received: 03/15/12 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/16/12 17:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/16/12 17:27	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/16/12 17:27	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/16/12 17:27	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/16/12 17:27	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/16/12 17:27	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/16/12 17:27	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/16/12 17:27	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/16/12 17:27	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/16/12 17:27	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/16/12 17:27	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/16/12 17:27	1
Acrolein	ND		100	17	ug/L			03/16/12 17:27	1
Acrylonitrile	ND		25	1.9	ug/L			03/16/12 17:27	1
Benzene	ND		5.0	0.60	ug/L			03/16/12 17:27	1
Bromoform	ND		5.0	0.47	ug/L			03/16/12 17:27	1
Bromomethane	ND		5.0	1.2	ug/L			03/16/12 17:27	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/16/12 17:27	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/16/12 17:27	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/16/12 17:27	1
Chloroethane	ND		5.0	0.87	ug/L			03/16/12 17:27	1
Chloroform	ND		5.0	0.54	ug/L			03/16/12 17:27	1
Chloromethane	ND		5.0	0.64	ug/L			03/16/12 17:27	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/16/12 17:27	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			03/16/12 17:27	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/16/12 17:27	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/16/12 17:27	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/16/12 17:27	1
Toluene	ND		5.0	0.45	ug/L			03/16/12 17:27	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/16/12 17:27	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/16/12 17:27	1
Trichloroethene	ND		5.0	0.60	ug/L			03/16/12 17:27	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/16/12 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		72 - 130		03/16/12 17:27	1
4-Bromofluorobenzene (Surr)	99		69 - 121		03/16/12 17:27	1
Toluene-d8 (Surr)	98		70 - 123		03/16/12 17:27	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/19/12 08:45	03/19/12 15:13	1
Arsenic	ND		0.010	0.0056	mg/L		03/19/12 08:45	03/19/12 15:13	1
Barium	0.015		0.0020	0.00070	mg/L		03/19/12 08:45	03/19/12 15:13	1
Beryllium	ND		0.0020	0.00030	mg/L		03/19/12 08:45	03/19/12 15:13	1
Cadmium	ND		0.0010	0.00050	mg/L		03/19/12 08:45	03/19/12 15:13	1
Calcium	11.2	B7	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:13	1
Chromium	ND		0.0040	0.0010	mg/L		03/19/12 08:45	03/19/12 15:13	1
Cobalt	ND		0.0040	0.00063	mg/L		03/19/12 08:45	03/19/12 15:13	1
Copper	0.22		0.010	0.0016	mg/L		03/19/12 08:45	03/19/12 15:13	1
Iron	0.025	J B	0.050	0.019	mg/L		03/19/12 08:45	03/19/12 15:13	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: PW-1

Lab Sample ID: 480-17317-1

Date Collected: 03/14/12 14:00

Matrix: Water

Date Received: 03/15/12 09:00

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.027		0.0050	0.0030	mg/L		03/19/12 08:45	03/19/12 15:13	1
Magnesium	2.8		0.20	0.043	mg/L		03/19/12 08:45	03/19/12 15:13	1
Manganese	0.0010	J B	0.0030	0.00040	mg/L		03/19/12 08:45	03/19/12 15:13	1
Nickel	0.0017	J	0.010	0.0013	mg/L		03/19/12 08:45	03/19/12 15:13	1
Potassium	1.9	B	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:13	1
Selenium	ND		0.015	0.0087	mg/L		03/19/12 08:45	03/19/12 15:13	1
Silver	ND		0.0030	0.0017	mg/L		03/19/12 08:45	03/19/12 15:13	1
Sodium	53.9		1.0	0.32	mg/L		03/19/12 08:45	03/19/12 15:13	1
Vanadium	ND		0.0050	0.0015	mg/L		03/19/12 08:45	03/19/12 15:13	1
Zinc	0.16		0.010	0.0015	mg/L		03/19/12 08:45	03/19/12 15:13	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.15	J	3.0	0.15	ug/L		03/19/12 08:15	03/19/12 19:56	1
Thallium	0.012	J	0.50	0.0080	ug/L		03/19/12 08:15	03/19/12 19:56	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/16/12 08:25	03/16/12 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	35.5		10.0	4.0	mg/L			03/20/12 11:33	1
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		03/21/12 16:54	03/23/12 09:21	1
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			03/16/12 18:28	1
Hardness as calcium carbonate	60.0		20.0	5.3	mg/L			03/27/12 15:15	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: PW-2

Date Collected: 03/14/12 14:25

Date Received: 03/15/12 09:00

Lab Sample ID: 480-17317-2

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/16/12 17:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/16/12 17:51	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/16/12 17:51	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/16/12 17:51	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/16/12 17:51	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/16/12 17:51	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/16/12 17:51	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/16/12 17:51	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/16/12 17:51	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/16/12 17:51	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/16/12 17:51	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/16/12 17:51	1
Acrolein	ND		100	17	ug/L			03/16/12 17:51	1
Acrylonitrile	ND		25	1.9	ug/L			03/16/12 17:51	1
Benzene	ND		5.0	0.60	ug/L			03/16/12 17:51	1
Bromoform	ND		5.0	0.47	ug/L			03/16/12 17:51	1
Bromomethane	ND		5.0	1.2	ug/L			03/16/12 17:51	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/16/12 17:51	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/16/12 17:51	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/16/12 17:51	1
Chloroethane	ND		5.0	0.87	ug/L			03/16/12 17:51	1
Chloroform	ND		5.0	0.54	ug/L			03/16/12 17:51	1
Chloromethane	ND		5.0	0.64	ug/L			03/16/12 17:51	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/16/12 17:51	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			03/16/12 17:51	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/16/12 17:51	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/16/12 17:51	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/16/12 17:51	1
Toluene	ND		5.0	0.45	ug/L			03/16/12 17:51	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/16/12 17:51	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/16/12 17:51	1
Trichloroethene	ND		5.0	0.60	ug/L			03/16/12 17:51	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/16/12 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		72 - 130		03/16/12 17:51	1
4-Bromofluorobenzene (Surr)	101		69 - 121		03/16/12 17:51	1
Toluene-d8 (Surr)	97		70 - 123		03/16/12 17:51	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.090	J	0.20	0.060	mg/L		03/19/12 08:45	03/19/12 15:15	1
Arsenic	ND		0.010	0.0056	mg/L		03/19/12 08:45	03/19/12 15:15	1
Barium	0.0023		0.0020	0.00070	mg/L		03/19/12 08:45	03/19/12 15:15	1
Beryllium	ND		0.0020	0.00030	mg/L		03/19/12 08:45	03/19/12 15:15	1
Cadmium	ND		0.0010	0.00050	mg/L		03/19/12 08:45	03/19/12 15:15	1
Calcium	31.3	B7	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:15	1
Chromium	ND		0.0040	0.0010	mg/L		03/19/12 08:45	03/19/12 15:15	1
Cobalt	ND		0.0040	0.00063	mg/L		03/19/12 08:45	03/19/12 15:15	1
Copper	0.033		0.010	0.0016	mg/L		03/19/12 08:45	03/19/12 15:15	1
Iron	0.064	B	0.050	0.019	mg/L		03/19/12 08:45	03/19/12 15:15	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: PW-2

Lab Sample ID: 480-17317-2

Date Collected: 03/14/12 14:25

Matrix: Water

Date Received: 03/15/12 09:00

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050	0.0030	mg/L		03/19/12 08:45	03/19/12 15:15	1
Magnesium	3.6		0.20	0.043	mg/L		03/19/12 08:45	03/19/12 15:15	1
Manganese	0.0012	J B	0.0030	0.00040	mg/L		03/19/12 08:45	03/19/12 15:15	1
Nickel	0.0044	J	0.010	0.0013	mg/L		03/19/12 08:45	03/19/12 15:15	1
Potassium	1.2	B	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:15	1
Selenium	ND		0.015	0.0087	mg/L		03/19/12 08:45	03/19/12 15:15	1
Silver	ND		0.0030	0.0017	mg/L		03/19/12 08:45	03/19/12 15:15	1
Sodium	8.7		1.0	0.32	mg/L		03/19/12 08:45	03/19/12 15:15	1
Vanadium	ND		0.0050	0.0015	mg/L		03/19/12 08:45	03/19/12 15:15	1
Zinc	0.038		0.010	0.0015	mg/L		03/19/12 08:45	03/19/12 15:15	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.0	0.15	ug/L		03/19/12 08:15	03/19/12 20:01	1
Thallium	ND		0.50	0.0080	ug/L		03/19/12 08:15	03/19/12 20:01	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/16/12 08:25	03/16/12 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	62.0		10.0	4.0	mg/L			03/20/12 11:33	1
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		03/20/12 16:00	03/21/12 14:41	1
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			03/16/12 18:32	1
Hardness as calcium carbonate	120		20.0	5.3	mg/L			03/27/12 15:15	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: SVWC-93

Lab Sample ID: 480-17317-3

Date Collected: 03/14/12 11:55

Matrix: Water

Date Received: 03/15/12 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/16/12 18:13	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/16/12 18:13	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/16/12 18:13	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/16/12 18:13	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/16/12 18:13	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/16/12 18:13	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/16/12 18:13	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/16/12 18:13	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/16/12 18:13	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/16/12 18:13	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/16/12 18:13	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/16/12 18:13	1
Acrolein	ND		100	17	ug/L			03/16/12 18:13	1
Acrylonitrile	ND		25	1.9	ug/L			03/16/12 18:13	1
Benzene	ND		5.0	0.60	ug/L			03/16/12 18:13	1
Bromoform	ND		5.0	0.47	ug/L			03/16/12 18:13	1
Bromomethane	ND		5.0	1.2	ug/L			03/16/12 18:13	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/16/12 18:13	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/16/12 18:13	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/16/12 18:13	1
Chloroethane	ND		5.0	0.87	ug/L			03/16/12 18:13	1
Chloroform	ND		5.0	0.54	ug/L			03/16/12 18:13	1
Chloromethane	ND		5.0	0.64	ug/L			03/16/12 18:13	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/16/12 18:13	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			03/16/12 18:13	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/16/12 18:13	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/16/12 18:13	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/16/12 18:13	1
Toluene	ND		5.0	0.45	ug/L			03/16/12 18:13	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/16/12 18:13	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/16/12 18:13	1
Trichloroethene	ND		5.0	0.60	ug/L			03/16/12 18:13	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/16/12 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		72 - 130		03/16/12 18:13	1
4-Bromofluorobenzene (Surr)	100		69 - 121		03/16/12 18:13	1
Toluene-d8 (Surr)	98		70 - 123		03/16/12 18:13	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.079	J	0.20	0.060	mg/L		03/19/12 08:45	03/19/12 15:17	1
Arsenic	ND		0.010	0.0056	mg/L		03/19/12 08:45	03/19/12 15:17	1
Barium	0.0059		0.0020	0.00070	mg/L		03/19/12 08:45	03/19/12 15:17	1
Beryllium	ND		0.0020	0.00030	mg/L		03/19/12 08:45	03/19/12 15:17	1
Cadmium	ND		0.0010	0.00050	mg/L		03/19/12 08:45	03/19/12 15:17	1
Calcium	17.2	B7	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:17	1
Chromium	ND		0.0040	0.0010	mg/L		03/19/12 08:45	03/19/12 15:17	1
Cobalt	ND		0.0040	0.00063	mg/L		03/19/12 08:45	03/19/12 15:17	1
Copper	0.0054	J	0.010	0.0016	mg/L		03/19/12 08:45	03/19/12 15:17	1
Iron	ND		0.050	0.019	mg/L		03/19/12 08:45	03/19/12 15:17	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: SVWC-93

Lab Sample ID: 480-17317-3

Date Collected: 03/14/12 11:55

Matrix: Water

Date Received: 03/15/12 09:00

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050	0.0030	mg/L		03/19/12 08:45	03/19/12 15:17	1
Magnesium	4.5		0.20	0.043	mg/L		03/19/12 08:45	03/19/12 15:17	1
Manganese	ND		0.0030	0.00040	mg/L		03/19/12 08:45	03/19/12 15:17	1
Nickel	ND		0.010	0.0013	mg/L		03/19/12 08:45	03/19/12 15:17	1
Potassium	1.4 B		0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:17	1
Selenium	ND		0.015	0.0087	mg/L		03/19/12 08:45	03/19/12 15:17	1
Silver	ND		0.0030	0.0017	mg/L		03/19/12 08:45	03/19/12 15:17	1
Sodium	34.1		1.0	0.32	mg/L		03/19/12 08:45	03/19/12 15:17	1
Vanadium	ND		0.0050	0.0015	mg/L		03/19/12 08:45	03/19/12 15:17	1
Zinc	0.0043 J		0.010	0.0015	mg/L		03/19/12 08:45	03/19/12 15:17	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.0	0.15	ug/L		03/19/12 08:15	03/19/12 20:06	1
Thallium	ND		0.50	0.0080	ug/L		03/19/12 08:15	03/19/12 20:06	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/19/12 08:50	03/19/12 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	37.4		10.0	4.0	mg/L			03/20/12 11:33	1
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		03/26/12 17:54	03/27/12 11:01	1
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			03/16/12 18:37	1
Hardness as calcium carbonate	100		20.0	5.3	mg/L			03/27/12 15:15	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: SVWC-94

Lab Sample ID: 480-17317-4

Date Collected: 03/14/12 12:20

Matrix: Water

Date Received: 03/15/12 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/16/12 19:23	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/16/12 19:23	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/16/12 19:23	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/16/12 19:23	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/16/12 19:23	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/16/12 19:23	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/16/12 19:23	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/16/12 19:23	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/16/12 19:23	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/16/12 19:23	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/16/12 19:23	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/16/12 19:23	1
Acrolein	ND		100	17	ug/L			03/16/12 19:23	1
Acrylonitrile	ND		25	1.9	ug/L			03/16/12 19:23	1
Benzene	ND		5.0	0.60	ug/L			03/16/12 19:23	1
Bromoform	ND		5.0	0.47	ug/L			03/16/12 19:23	1
Bromomethane	ND		5.0	1.2	ug/L			03/16/12 19:23	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/16/12 19:23	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/16/12 19:23	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/16/12 19:23	1
Chloroethane	ND		5.0	0.87	ug/L			03/16/12 19:23	1
Chloroform	ND		5.0	0.54	ug/L			03/16/12 19:23	1
Chloromethane	ND		5.0	0.64	ug/L			03/16/12 19:23	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/16/12 19:23	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			03/16/12 19:23	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/16/12 19:23	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/16/12 19:23	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/16/12 19:23	1
Toluene	ND		5.0	0.45	ug/L			03/16/12 19:23	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/16/12 19:23	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/16/12 19:23	1
Trichloroethene	ND		5.0	0.60	ug/L			03/16/12 19:23	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/16/12 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		72 - 130		03/16/12 19:23	1
4-Bromofluorobenzene (Surr)	100		69 - 121		03/16/12 19:23	1
Toluene-d8 (Surr)	96		70 - 123		03/16/12 19:23	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.21		0.20	0.060	mg/L		03/19/12 08:45	03/19/12 15:27	1
Arsenic	ND		0.010	0.0056	mg/L		03/19/12 08:45	03/19/12 15:27	1
Barium	0.0089		0.0020	0.00070	mg/L		03/19/12 08:45	03/19/12 15:27	1
Beryllium	ND		0.0020	0.00030	mg/L		03/19/12 08:45	03/19/12 15:27	1
Cadmium	ND		0.0010	0.00050	mg/L		03/19/12 08:45	03/19/12 15:27	1
Calcium	17.6	B7	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:27	1
Chromium	ND		0.0040	0.0010	mg/L		03/19/12 08:45	03/19/12 15:27	1
Cobalt	ND		0.0040	0.00063	mg/L		03/19/12 08:45	03/19/12 15:27	1
Copper	0.0067	J	0.010	0.0016	mg/L		03/19/12 08:45	03/19/12 15:27	1
Iron	ND		0.050	0.019	mg/L		03/19/12 08:45	03/19/12 15:27	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: SVWC-94

Lab Sample ID: 480-17317-4

Date Collected: 03/14/12 12:20

Matrix: Water

Date Received: 03/15/12 09:00

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050	0.0030	mg/L		03/19/12 08:45	03/19/12 15:27	1
Magnesium	4.5		0.20	0.043	mg/L		03/19/12 08:45	03/19/12 15:27	1
Manganese	ND		0.0030	0.00040	mg/L		03/19/12 08:45	03/19/12 15:27	1
Nickel	ND		0.010	0.0013	mg/L		03/19/12 08:45	03/19/12 15:27	1
Potassium	1.3	B	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:27	1
Selenium	ND		0.015	0.0087	mg/L		03/19/12 08:45	03/19/12 15:27	1
Silver	ND		0.0030	0.0017	mg/L		03/19/12 08:45	03/19/12 15:27	1
Sodium	34.0		1.0	0.32	mg/L		03/19/12 08:45	03/19/12 15:27	1
Vanadium	ND		0.0050	0.0015	mg/L		03/19/12 08:45	03/19/12 15:27	1
Zinc	0.0040	J	0.010	0.0015	mg/L		03/19/12 08:45	03/19/12 15:27	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.80	J	3.0	0.15	ug/L		03/19/12 08:15	03/19/12 20:43	1
Thallium	0.015	J	0.50	0.0080	ug/L		03/19/12 08:15	03/19/12 20:43	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/16/12 08:25	03/16/12 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	41.6		10.0	4.0	mg/L			03/20/12 11:34	1
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		03/20/12 16:00	03/21/12 13:52	1
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			03/16/12 18:51	1
Hardness as calcium carbonate	80.0		20.0	5.3	mg/L			03/27/12 15:15	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: SVWC-96

Lab Sample ID: 480-17317-5

Date Collected: 03/14/12 12:35

Matrix: Water

Date Received: 03/15/12 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/16/12 19:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/16/12 19:45	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/16/12 19:45	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/16/12 19:45	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/16/12 19:45	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/16/12 19:45	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/16/12 19:45	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/16/12 19:45	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/16/12 19:45	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/16/12 19:45	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/16/12 19:45	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/16/12 19:45	1
Acrolein	ND		100	17	ug/L			03/16/12 19:45	1
Acrylonitrile	ND		25	1.9	ug/L			03/16/12 19:45	1
Benzene	ND		5.0	0.60	ug/L			03/16/12 19:45	1
Bromoform	ND		5.0	0.47	ug/L			03/16/12 19:45	1
Bromomethane	ND		5.0	1.2	ug/L			03/16/12 19:45	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/16/12 19:45	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/16/12 19:45	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/16/12 19:45	1
Chloroethane	ND		5.0	0.87	ug/L			03/16/12 19:45	1
Chloroform	ND		5.0	0.54	ug/L			03/16/12 19:45	1
Chloromethane	ND		5.0	0.64	ug/L			03/16/12 19:45	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/16/12 19:45	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			03/16/12 19:45	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/16/12 19:45	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/16/12 19:45	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/16/12 19:45	1
Toluene	ND		5.0	0.45	ug/L			03/16/12 19:45	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/16/12 19:45	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/16/12 19:45	1
Trichloroethene	ND		5.0	0.60	ug/L			03/16/12 19:45	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/16/12 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		72 - 130		03/16/12 19:45	1
4-Bromofluorobenzene (Surr)	99		69 - 121		03/16/12 19:45	1
Toluene-d8 (Surr)	97		70 - 123		03/16/12 19:45	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.32		0.20	0.060	mg/L		03/19/12 08:45	03/19/12 15:29	1
Arsenic	ND		0.010	0.0056	mg/L		03/19/12 08:45	03/19/12 15:29	1
Barium	0.0071		0.0020	0.00070	mg/L		03/19/12 08:45	03/19/12 15:29	1
Beryllium	ND		0.0020	0.00030	mg/L		03/19/12 08:45	03/19/12 15:29	1
Cadmium	ND		0.0010	0.00050	mg/L		03/19/12 08:45	03/19/12 15:29	1
Calcium	16.9	B7	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:29	1
Chromium	ND		0.0040	0.0010	mg/L		03/19/12 08:45	03/19/12 15:29	1
Cobalt	ND		0.0040	0.00063	mg/L		03/19/12 08:45	03/19/12 15:29	1
Copper	0.0031	J	0.010	0.0016	mg/L		03/19/12 08:45	03/19/12 15:29	1
Iron	0.020	J B	0.050	0.019	mg/L		03/19/12 08:45	03/19/12 15:29	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: SVWC-96

Lab Sample ID: 480-17317-5

Date Collected: 03/14/12 12:35

Matrix: Water

Date Received: 03/15/12 09:00

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050	0.0030	mg/L		03/19/12 08:45	03/19/12 15:29	1
Magnesium	4.4		0.20	0.043	mg/L		03/19/12 08:45	03/19/12 15:29	1
Manganese	ND		0.0030	0.00040	mg/L		03/19/12 08:45	03/19/12 15:29	1
Nickel	ND		0.010	0.0013	mg/L		03/19/12 08:45	03/19/12 15:29	1
Potassium	1.4 B		0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:29	1
Selenium	ND		0.015	0.0087	mg/L		03/19/12 08:45	03/19/12 15:29	1
Silver	ND		0.0030	0.0017	mg/L		03/19/12 08:45	03/19/12 15:29	1
Sodium	42.8		1.0	0.32	mg/L		03/19/12 08:45	03/19/12 15:29	1
Vanadium	ND		0.0050	0.0015	mg/L		03/19/12 08:45	03/19/12 15:29	1
Zinc	0.021		0.010	0.0015	mg/L		03/19/12 08:45	03/19/12 15:29	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35 J		3.0	0.15	ug/L		03/19/12 08:15	03/19/12 20:48	1
Thallium	0.0095 J		0.50	0.0080	ug/L		03/19/12 08:15	03/19/12 20:48	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/16/12 08:25	03/16/12 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	51.6		10.0	4.0	mg/L			03/20/12 11:34	1
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		03/22/12 11:06	03/23/12 10:19	1
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			03/16/12 19:00	1
Hardness as calcium carbonate	80.0		20.0	5.3	mg/L			03/27/12 15:15	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-17317-6

Date Collected: 03/14/12 00:00

Matrix: Water

Date Received: 03/15/12 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/16/12 20:09	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/16/12 20:09	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/16/12 20:09	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/16/12 20:09	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/16/12 20:09	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/16/12 20:09	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/16/12 20:09	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/16/12 20:09	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/16/12 20:09	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/16/12 20:09	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/16/12 20:09	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/16/12 20:09	1
Acrolein	ND		100	17	ug/L			03/16/12 20:09	1
Acrylonitrile	ND		25	1.9	ug/L			03/16/12 20:09	1
Benzene	ND		5.0	0.60	ug/L			03/16/12 20:09	1
Bromoform	ND		5.0	0.47	ug/L			03/16/12 20:09	1
Bromomethane	ND		5.0	1.2	ug/L			03/16/12 20:09	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/16/12 20:09	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/16/12 20:09	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/16/12 20:09	1
Chloroethane	ND		5.0	0.87	ug/L			03/16/12 20:09	1
Chloroform	ND		5.0	0.54	ug/L			03/16/12 20:09	1
Chloromethane	ND		5.0	0.64	ug/L			03/16/12 20:09	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/16/12 20:09	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			03/16/12 20:09	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/16/12 20:09	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/16/12 20:09	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/16/12 20:09	1
Toluene	ND		5.0	0.45	ug/L			03/16/12 20:09	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/16/12 20:09	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/16/12 20:09	1
Trichloroethene	ND		5.0	0.60	ug/L			03/16/12 20:09	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/16/12 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		72 - 130		03/16/12 20:09	1
4-Bromofluorobenzene (Surr)	98		69 - 121		03/16/12 20:09	1
Toluene-d8 (Surr)	97		70 - 123		03/16/12 20:09	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: DUP

Date Collected: 03/14/12 11:55

Date Received: 03/15/12 09:00

Lab Sample ID: 480-17317-7

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/16/12 20:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/16/12 20:32	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/16/12 20:32	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/16/12 20:32	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/16/12 20:32	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/16/12 20:32	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/16/12 20:32	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/16/12 20:32	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/16/12 20:32	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/16/12 20:32	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/16/12 20:32	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/16/12 20:32	1
Acrolein	ND		100	17	ug/L			03/16/12 20:32	1
Acrylonitrile	ND		25	1.9	ug/L			03/16/12 20:32	1
Benzene	ND		5.0	0.60	ug/L			03/16/12 20:32	1
Bromoform	ND		5.0	0.47	ug/L			03/16/12 20:32	1
Bromomethane	ND		5.0	1.2	ug/L			03/16/12 20:32	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/16/12 20:32	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/16/12 20:32	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/16/12 20:32	1
Chloroethane	ND		5.0	0.87	ug/L			03/16/12 20:32	1
Chloroform	ND		5.0	0.54	ug/L			03/16/12 20:32	1
Chloromethane	ND		5.0	0.64	ug/L			03/16/12 20:32	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/16/12 20:32	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			03/16/12 20:32	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/16/12 20:32	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/16/12 20:32	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/16/12 20:32	1
Toluene	ND		5.0	0.45	ug/L			03/16/12 20:32	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/16/12 20:32	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/16/12 20:32	1
Trichloroethene	ND		5.0	0.60	ug/L			03/16/12 20:32	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/16/12 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		72 - 130		03/16/12 20:32	1
4-Bromofluorobenzene (Surr)	99		69 - 121		03/16/12 20:32	1
Toluene-d8 (Surr)	96		70 - 123		03/16/12 20:32	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/19/12 08:45	03/19/12 15:31	1
Arsenic	ND		0.010	0.0056	mg/L		03/19/12 08:45	03/19/12 15:31	1
Barium	0.0059		0.0020	0.00070	mg/L		03/19/12 08:45	03/19/12 15:31	1
Beryllium	ND		0.0020	0.00030	mg/L		03/19/12 08:45	03/19/12 15:31	1
Cadmium	ND		0.0010	0.00050	mg/L		03/19/12 08:45	03/19/12 15:31	1
Calcium	17.2	B7	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:31	1
Chromium	ND		0.0040	0.0010	mg/L		03/19/12 08:45	03/19/12 15:31	1
Cobalt	ND		0.0040	0.00063	mg/L		03/19/12 08:45	03/19/12 15:31	1
Copper	0.0055	J	0.010	0.0016	mg/L		03/19/12 08:45	03/19/12 15:31	1
Iron	ND		0.050	0.019	mg/L		03/19/12 08:45	03/19/12 15:31	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: DUP

Lab Sample ID: 480-17317-7

Date Collected: 03/14/12 11:55

Matrix: Water

Date Received: 03/15/12 09:00

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050	0.0030	mg/L		03/19/12 08:45	03/19/12 15:31	1
Magnesium	4.5		0.20	0.043	mg/L		03/19/12 08:45	03/19/12 15:31	1
Manganese	ND		0.0030	0.00040	mg/L		03/19/12 08:45	03/19/12 15:31	1
Nickel	ND		0.010	0.0013	mg/L		03/19/12 08:45	03/19/12 15:31	1
Potassium	1.3 B		0.50	0.10	mg/L		03/19/12 08:45	03/19/12 15:31	1
Selenium	ND		0.015	0.0087	mg/L		03/19/12 08:45	03/19/12 15:31	1
Silver	ND		0.0030	0.0017	mg/L		03/19/12 08:45	03/19/12 15:31	1
Sodium	34.4		1.0	0.32	mg/L		03/19/12 08:45	03/19/12 15:31	1
Vanadium	ND		0.0050	0.0015	mg/L		03/19/12 08:45	03/19/12 15:31	1
Zinc	0.0027 J		0.010	0.0015	mg/L		03/19/12 08:45	03/19/12 15:31	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23 J		3.0	0.15	ug/L		03/19/12 08:15	03/19/12 20:53	1
Thallium	0.0081 J		0.50	0.0080	ug/L		03/19/12 08:15	03/19/12 20:53	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/19/12 08:50	03/19/12 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	36.6		10.0	4.0	mg/L			03/20/12 11:34	1
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		03/20/12 16:00	03/21/12 14:41	1
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			03/16/12 18:56	1
Hardness as calcium carbonate	80.0		20.0	5.3	mg/L			03/27/12 15:15	1

Surrogate Summary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (72-130)	BFB (69-121)	TOL (70-123)
480-17317-1	PW-1	92	99	98
480-17317-2	PW-2	94	101	97
480-17317-3	SVWC-93	91	100	98
480-17317-3 MS	SVWC-93	95	100	96
480-17317-3 MSD	SVWC-93	94	99	96
480-17317-4	SVWC-94	93	100	96
480-17317-5	SVWC-96	93	99	97
480-17317-6	TRIP BLANK	92	98	97
480-17317-7	DUP	92	99	96
LCS 480-55530/4	Lab Control Sample	93	100	96
MB 480-55530/5	Method Blank	92	100	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-55530/5

Matrix: Water

Analysis Batch: 55530

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/16/12 13:02	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/16/12 13:02	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/16/12 13:02	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/16/12 13:02	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/16/12 13:02	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/16/12 13:02	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/16/12 13:02	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/16/12 13:02	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/16/12 13:02	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/16/12 13:02	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/16/12 13:02	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/16/12 13:02	1
Acrolein	ND		100	17	ug/L			03/16/12 13:02	1
Acrylonitrile	ND		25	1.9	ug/L			03/16/12 13:02	1
Benzene	ND		5.0	0.60	ug/L			03/16/12 13:02	1
Bromoform	ND		5.0	0.47	ug/L			03/16/12 13:02	1
Bromomethane	ND		5.0	1.2	ug/L			03/16/12 13:02	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/16/12 13:02	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/16/12 13:02	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/16/12 13:02	1
Chloroethane	ND		5.0	0.87	ug/L			03/16/12 13:02	1
Chloroform	ND		5.0	0.54	ug/L			03/16/12 13:02	1
Chloromethane	ND		5.0	0.64	ug/L			03/16/12 13:02	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/16/12 13:02	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			03/16/12 13:02	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/16/12 13:02	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/16/12 13:02	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/16/12 13:02	1
Toluene	ND		5.0	0.45	ug/L			03/16/12 13:02	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/16/12 13:02	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/16/12 13:02	1
Trichloroethene	ND		5.0	0.60	ug/L			03/16/12 13:02	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/16/12 13:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		72 - 130		03/16/12 13:02	1
4-Bromofluorobenzene (Surr)	100		69 - 121		03/16/12 13:02	1
Toluene-d8 (Surr)	97		70 - 123		03/16/12 13:02	1

Lab Sample ID: LCS 480-55530/4

Matrix: Water

Analysis Batch: 55530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/L		101	61 - 140
1,1,2-Trichloroethane	20.0	20.5		ug/L		103	71 - 129
1,1-Dichloroethane	20.0	19.8		ug/L		99	73 - 128
1,1-Dichloroethene	20.0	18.2		ug/L		91	51 - 150

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-55530/4

Matrix: Water

Analysis Batch: 55530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	63 - 137
1,2-Dichloroethane	20.0	19.7		ug/L		99	68 - 132
1,2-Dichloropropane	20.0	20.9		ug/L		105	34 - 166
1,3-Dichlorobenzene	20.0	19.7		ug/L		99	73 - 127
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	63 - 137
Benzene	20.0	20.1		ug/L		101	64 - 136
Bromoform	20.0	17.6		ug/L		88	71 - 129
Bromomethane	20.0	21.7		ug/L		109	14 - 186
Carbon tetrachloride	20.0	19.8		ug/L		99	73 - 127
Chlorobenzene	20.0	19.9		ug/L		100	66 - 134
Chlorodibromomethane	20.0	18.9		ug/L		95	68 - 133
Chloroethane	20.0	19.6		ug/L		98	38 - 162
Chloroform	20.0	20.1		ug/L		101	68 - 133
Chloromethane	20.0	18.7		ug/L		94	1 - 204
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	24 - 176
Dichlorobromomethane	20.0	19.5		ug/L		98	66 - 135
Ethylbenzene	20.0	19.9		ug/L		100	59 - 141
Methylene Chloride	20.0	20.2		ug/L		101	61 - 140
Tetrachloroethene	20.0	19.8		ug/L		99	74 - 127
Toluene	20.0	20.1		ug/L		101	75 - 126
trans-1,2-Dichloroethene	20.0	19.6		ug/L		98	72 - 133
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	50 - 150
Trichloroethene	20.0	19.9		ug/L		100	67 - 134
Vinyl chloride	20.0	20.2		ug/L		101	4 - 196

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		72 - 130
4-Bromofluorobenzene (Surr)	100		69 - 121
Toluene-d8 (Surr)	96		70 - 123

Lab Sample ID: 480-17317-3 MS

Matrix: Water

Analysis Batch: 55530

Client Sample ID: SVWC-93

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		20.0	21.5		ug/L		108	75 - 125
1,1,1,2-Tetrachloroethane	ND		20.0	20.6		ug/L		103	61 - 140
1,1,2-Trichloroethane	ND		20.0	20.3		ug/L		102	71 - 129
1,1-Dichloroethane	ND		20.0	22.2		ug/L		111	73 - 128
1,1-Dichloroethene	ND		20.0	23.4		ug/L		117	51 - 150
1,2-Dichlorobenzene	ND		20.0	19.6		ug/L		98	63 - 137
1,2-Dichloroethane	ND		20.0	21.2		ug/L		106	68 - 132
1,2-Dichloropropane	ND		20.0	21.7		ug/L		109	34 - 166
1,3-Dichlorobenzene	ND		20.0	20.1		ug/L		101	73 - 127
1,4-Dichlorobenzene	ND		20.0	19.3		ug/L		97	63 - 137
Benzene	ND		20.0	22.4		ug/L		112	64 - 136
Bromoform	ND		20.0	16.1		ug/L		81	71 - 129
Bromomethane	ND		20.0	22.6		ug/L		113	14 - 186
Carbon tetrachloride	ND		20.0	21.5		ug/L		108	73 - 127

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-17317-3 MS

Matrix: Water

Analysis Batch: 55530

Client Sample ID: SVWC-93

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	ND		20.0	20.6		ug/L		103	66 - 134
Chlorodibromomethane	ND		20.0	18.9		ug/L		95	68 - 133
Chloroethane	ND		20.0	21.2		ug/L		106	38 - 162
Chloroform	ND		20.0	22.1		ug/L		111	68 - 133
Chloromethane	ND		20.0	23.5		ug/L		118	1 - 204
cis-1,3-Dichloropropene	ND		20.0	19.5		ug/L		98	24 - 176
Dichlorobromomethane	ND		20.0	19.8		ug/L		99	66 - 135
Ethylbenzene	ND		20.0	21.0		ug/L		105	59 - 141
Methylene Chloride	ND		20.0	22.5		ug/L		113	61 - 140
Tetrachloroethene	ND		20.0	21.2		ug/L		106	74 - 127
Toluene	ND		20.0	20.9		ug/L		105	75 - 126
trans-1,2-Dichloroethene	ND		20.0	22.8		ug/L		114	72 - 133
trans-1,3-Dichloropropene	ND		20.0	18.8		ug/L		94	50 - 150
Trichloroethene	ND		20.0	21.8		ug/L		109	67 - 134
Vinyl chloride	ND		20.0	23.0		ug/L		115	4 - 196

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		72 - 130
4-Bromofluorobenzene (Surr)	100		69 - 121
Toluene-d8 (Surr)	96		70 - 123

Lab Sample ID: 480-17317-3 MSD

Matrix: Water

Analysis Batch: 55530

Client Sample ID: SVWC-93

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	22.3		ug/L		112	75 - 125	4	15
1,1,1,2-Tetrachloroethane	ND		20.0	21.6		ug/L		108	61 - 140	5	15
1,1,2-Trichloroethane	ND		20.0	21.3		ug/L		107	71 - 129	5	15
1,1-Dichloroethane	ND		20.0	22.6		ug/L		113	73 - 128	2	15
1,1-Dichloroethene	ND		20.0	24.0		ug/L		120	51 - 150	3	15
1,2-Dichlorobenzene	ND		20.0	20.1		ug/L		101	63 - 137	3	15
1,2-Dichloroethane	ND		20.0	20.8		ug/L		104	68 - 132	2	15
1,2-Dichloropropane	ND		20.0	21.7		ug/L		109	34 - 166	0	15
1,3-Dichlorobenzene	ND		20.0	20.5		ug/L		103	73 - 127	2	15
1,4-Dichlorobenzene	ND		20.0	20.2		ug/L		101	63 - 137	5	15
Benzene	ND		20.0	22.3		ug/L		112	64 - 136	0	15
Bromoform	ND		20.0	16.8		ug/L		84	71 - 129	4	15
Bromomethane	ND		20.0	22.9		ug/L		115	14 - 186	1	15
Carbon tetrachloride	ND		20.0	22.3		ug/L		112	73 - 127	4	15
Chlorobenzene	ND		20.0	21.0		ug/L		105	66 - 134	2	15
Chlorodibromomethane	ND		20.0	19.4		ug/L		97	68 - 133	3	15
Chloroethane	ND		20.0	20.6		ug/L		103	38 - 162	3	15
Chloroform	ND		20.0	21.5		ug/L		108	68 - 133	3	15
Chloromethane	ND		20.0	23.5		ug/L		118	1 - 204	0	15
cis-1,3-Dichloropropene	ND		20.0	20.2		ug/L		101	24 - 176	4	15
Dichlorobromomethane	ND		20.0	20.4		ug/L		102	66 - 135	3	15
Ethylbenzene	ND		20.0	21.2		ug/L		106	59 - 141	1	15
Methylene Chloride	ND		20.0	22.5		ug/L		113	61 - 140	0	15

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-17317-3 MSD

Matrix: Water

Analysis Batch: 55530

Client Sample ID: SVWC-93

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	ND		20.0	21.1		ug/L		106	74 - 127	0	15
Toluene	ND		20.0	21.5		ug/L		108	75 - 126	3	15
trans-1,2-Dichloroethene	ND		20.0	22.7		ug/L		114	72 - 133	0	15
trans-1,3-Dichloropropene	ND		20.0	19.4		ug/L		97	50 - 150	3	15
Trichloroethene	ND		20.0	22.4		ug/L		112	67 - 134	3	15
Vinyl chloride	ND		20.0	22.2		ug/L		111	4 - 196	4	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		72 - 130
4-Bromofluorobenzene (Surr)	99		69 - 121
Toluene-d8 (Surr)	96		70 - 123

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-55599/1-A

Matrix: Water

Analysis Batch: 55927

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/19/12 08:45	03/19/12 14:41	1
Arsenic	ND		0.010	0.0056	mg/L		03/19/12 08:45	03/19/12 14:41	1
Barium	ND		0.0020	0.00070	mg/L		03/19/12 08:45	03/19/12 14:41	1
Beryllium	ND		0.0020	0.00030	mg/L		03/19/12 08:45	03/19/12 14:41	1
Cadmium	ND		0.0010	0.00050	mg/L		03/19/12 08:45	03/19/12 14:41	1
Calcium	0.163	J	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 14:41	1
Chromium	ND		0.0040	0.0010	mg/L		03/19/12 08:45	03/19/12 14:41	1
Cobalt	ND		0.0040	0.00063	mg/L		03/19/12 08:45	03/19/12 14:41	1
Copper	ND		0.010	0.0016	mg/L		03/19/12 08:45	03/19/12 14:41	1
Iron	0.0324	J	0.050	0.019	mg/L		03/19/12 08:45	03/19/12 14:41	1
Lead	ND		0.0050	0.0030	mg/L		03/19/12 08:45	03/19/12 14:41	1
Magnesium	ND		0.20	0.043	mg/L		03/19/12 08:45	03/19/12 14:41	1
Manganese	0.000930	J	0.0030	0.00040	mg/L		03/19/12 08:45	03/19/12 14:41	1
Nickel	ND		0.010	0.0013	mg/L		03/19/12 08:45	03/19/12 14:41	1
Potassium	0.229	J	0.50	0.10	mg/L		03/19/12 08:45	03/19/12 14:41	1
Selenium	ND		0.015	0.0087	mg/L		03/19/12 08:45	03/19/12 14:41	1
Silver	ND		0.0030	0.0017	mg/L		03/19/12 08:45	03/19/12 14:41	1
Sodium	ND		1.0	0.32	mg/L		03/19/12 08:45	03/19/12 14:41	1
Vanadium	ND		0.0050	0.0015	mg/L		03/19/12 08:45	03/19/12 14:41	1
Zinc	ND		0.010	0.0015	mg/L		03/19/12 08:45	03/19/12 14:41	1

Lab Sample ID: LCS 480-55599/2-A

Matrix: Water

Analysis Batch: 55927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.99		mg/L		100	85 - 115
Arsenic	0.200	0.207		mg/L		103	85 - 115
Barium	0.200	0.212		mg/L		106	85 - 115
Beryllium	0.200	0.206		mg/L		103	85 - 115

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-55599/2-A

Matrix: Water

Analysis Batch: 55927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.200	0.204		mg/L		102	85 - 115
Calcium	10.0	10.20		mg/L		102	85 - 115
Chromium	0.200	0.200		mg/L		100	85 - 115
Cobalt	0.200	0.190		mg/L		95	85 - 115
Copper	0.200	0.204		mg/L		102	85 - 115
Iron	10.0	10.10		mg/L		101	85 - 115
Lead	0.200	0.198		mg/L		99	85 - 115
Magnesium	10.0	10.11		mg/L		101	85 - 115
Manganese	0.200	0.203		mg/L		101	85 - 115
Nickel	0.200	0.196		mg/L		98	85 - 115
Potassium	10.0	10.10		mg/L		101	85 - 115
Selenium	0.200	0.206		mg/L		103	85 - 115
Silver	0.0500	0.0500		mg/L		100	85 - 115
Sodium	10.0	10.01		mg/L		100	85 - 115
Vanadium	0.200	0.200		mg/L		100	85 - 115
Zinc	0.200	0.213		mg/L		107	85 - 115

Lab Sample ID: 480-17317-3 MS

Matrix: Water

Analysis Batch: 55927

Client Sample ID: SVWC-93

Prep Type: Total/NA

Prep Batch: 55599

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	0.079	J	10.0	9.72		mg/L		96	70 - 130
Arsenic	ND		0.200	0.215		mg/L		107	70 - 130
Barium	0.0059		0.200	0.211		mg/L		102	70 - 130
Beryllium	ND		0.200	0.209		mg/L		104	70 - 130
Cadmium	ND		0.200	0.208		mg/L		104	70 - 130
Calcium	17.2	B7	10.0	27.43		mg/L		102	70 - 130
Chromium	ND		0.200	0.202		mg/L		101	70 - 130
Cobalt	ND		0.200	0.195		mg/L		97	70 - 130
Copper	0.0054	J	0.200	0.209		mg/L		102	70 - 130
Iron	ND		10.0	10.16		mg/L		102	70 - 130
Lead	ND		0.200	0.203		mg/L		101	70 - 130
Magnesium	4.5		10.0	14.59		mg/L		101	70 - 130
Manganese	ND		0.200	0.204		mg/L		102	70 - 130
Nickel	ND		0.200	0.202		mg/L		101	70 - 130
Potassium	1.4	B	10.0	11.09		mg/L		97	70 - 130
Selenium	ND		0.200	0.212		mg/L		106	70 - 130
Silver	ND		0.0500	0.0495		mg/L		99	70 - 130
Sodium	34.1		10.0	44.06		mg/L		99	70 - 130
Vanadium	ND		0.200	0.204		mg/L		102	70 - 130
Zinc	0.0043	J	0.200	0.222		mg/L		109	70 - 130

Lab Sample ID: 480-17317-3 MSD

Matrix: Water

Analysis Batch: 55927

Client Sample ID: SVWC-93

Prep Type: Total/NA

Prep Batch: 55599

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.079	J	10.0	9.80		mg/L		97	70 - 130	1	20
Arsenic	ND		0.200	0.207		mg/L		104	70 - 130	4	20

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 480-17317-3 MSD

Matrix: Water

Analysis Batch: 55927

Client Sample ID: SVWC-93

Prep Type: Total/NA

Prep Batch: 55599

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.0059		0.200	0.211		mg/L		103	70 - 130	0	20
Beryllium	ND		0.200	0.203		mg/L		102	70 - 130	3	20
Cadmium	ND		0.200	0.201		mg/L		100	70 - 130	3	20
Calcium	17.2	B7	10.0	27.05		mg/L		98	70 - 130	1	20
Chromium	ND		0.200	0.198		mg/L		99	70 - 130	2	20
Cobalt	ND		0.200	0.189		mg/L		95	70 - 130	3	20
Copper	0.0054	J	0.200	0.204		mg/L		99	70 - 130	2	20
Iron	ND		10.0	9.90		mg/L		99	70 - 130	3	20
Lead	ND		0.200	0.196		mg/L		98	70 - 130	3	20
Magnesium	4.5		10.0	14.35		mg/L		99	70 - 130	2	20
Manganese	ND		0.200	0.199		mg/L		100	70 - 130	2	20
Nickel	ND		0.200	0.196		mg/L		98	70 - 130	3	20
Potassium	1.4	B	10.0	11.00		mg/L		96	70 - 130	1	20
Selenium	ND		0.200	0.205		mg/L		102	70 - 130	3	20
Silver	ND		0.0500	0.0491		mg/L		98	70 - 130	1	20
Sodium	34.1		10.0	43.77		mg/L		97	70 - 130	1	20
Vanadium	ND		0.200	0.198		mg/L		99	70 - 130	3	20
Zinc	0.0043	J	0.200	0.217		mg/L		106	70 - 130	2	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 480-55601/1-A

Matrix: Water

Analysis Batch: 55944

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.0	0.15	ug/L		03/19/12 08:15	03/19/12 18:49	1
Thallium	ND		0.50	0.0080	ug/L		03/19/12 08:15	03/19/12 18:49	1

Lab Sample ID: LCS 480-55601/2-A

Matrix: Water

Analysis Batch: 55944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	20.0	19.64		ug/L		98	85 - 115
Thallium	20.0	20.45		ug/L		102	85 - 115

Lab Sample ID: 480-17317-3 MS

Matrix: Water

Analysis Batch: 55944

Client Sample ID: SVWC-93

Prep Type: Total/NA

Prep Batch: 55601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		20.0	21.31		ug/L		107	70 - 130
Thallium	ND		20.0	20.32		ug/L		102	70 - 130

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 480-17317-3 MSD

Matrix: Water

Analysis Batch: 55944

Client Sample ID: SVWC-93

Prep Type: Total/NA

Prep Batch: 55601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		20.0	20.85		ug/L		104	70 - 130	2	20
Thallium	ND		20.0	19.72		ug/L		99	70 - 130	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-55480/1-A

Matrix: Water

Analysis Batch: 55556

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/16/12 08:25	03/16/12 11:12	1

Lab Sample ID: LCS 480-55480/2-A

Matrix: Water

Analysis Batch: 55556

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00697		mg/L		104	85 - 115

Lab Sample ID: 480-17317-5 MS

Matrix: Water

Analysis Batch: 55556

Client Sample ID: SVWC-96

Prep Type: Total/NA

Prep Batch: 55480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00683		mg/L		102	70 - 130

Lab Sample ID: 480-17317-5 MSD

Matrix: Water

Analysis Batch: 55556

Client Sample ID: SVWC-96

Prep Type: Total/NA

Prep Batch: 55480

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00688		mg/L		103	70 - 130	1	20

Lab Sample ID: MB 480-55752/1-A

Matrix: Water

Analysis Batch: 55800

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/19/12 08:50	03/19/12 11:50	1

Lab Sample ID: LCS 480-55752/2-A

Matrix: Water

Analysis Batch: 55800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00658		mg/L		99	85 - 115

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 480-17317-3 MS

Matrix: Water

Analysis Batch: 55800

Client Sample ID: SVWC-93

Prep Type: Total/NA

Prep Batch: 55752

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00697		mg/L		104	70 - 130

Lab Sample ID: 480-17317-3 MSD

Matrix: Water

Analysis Batch: 55800

Client Sample ID: SVWC-93

Prep Type: Total/NA

Prep Batch: 55752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00690		mg/L		103	70 - 130	1	20

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-56127/7

Matrix: Water

Analysis Batch: 56127

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0	4.0	mg/L			03/20/12 11:33	1

Lab Sample ID: LCS 480-56127/6

Matrix: Water

Analysis Batch: 56127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.20		mg/L		96	90 - 110

Lab Sample ID: 480-17317-3 MS

Matrix: Water

Analysis Batch: 56127

Client Sample ID: SVWC-93

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	37.4		20.0	54.09		mg/L		83	22 - 128

Lab Sample ID: 480-17317-3 MSD

Matrix: Water

Analysis Batch: 56127

Client Sample ID: SVWC-93

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	37.4		20.0	55.92		mg/L		93	22 - 128	3	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-56056/1-A

Matrix: Water

Analysis Batch: 56255

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56056

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		03/20/12 16:00	03/21/12 10:27	1

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 480-56056/2-A

Matrix: Water

Analysis Batch: 56255

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.55		mg/L		102	90 - 110

Lab Sample ID: MB 480-56220/1-A

Matrix: Water

Analysis Batch: 56559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56220

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		03/21/12 15:00	03/23/12 07:35	1

Lab Sample ID: LCS 480-56220/2-A

Matrix: Water

Analysis Batch: 56559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56220

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.48		mg/L		99	90 - 110

Lab Sample ID: MB 480-56310/1-A

Matrix: Water

Analysis Batch: 56559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		03/22/12 11:06	03/23/12 07:35	1

Lab Sample ID: LCS 480-56310/2-A

Matrix: Water

Analysis Batch: 56559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.65		mg/L		106	90 - 110

Lab Sample ID: MB 480-56771/1-A

Matrix: Water

Analysis Batch: 56910

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		03/26/12 16:00	03/27/12 09:07	1

Lab Sample ID: LCS 480-56771/2-A

Matrix: Water

Analysis Batch: 56910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.57		mg/L		103	90 - 110

Lab Sample ID: 480-17317-3 MS

Matrix: Water

Analysis Batch: 56910

Client Sample ID: SVWC-93

Prep Type: Total/NA

Prep Batch: 56771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	ND		1.00	0.985		mg/L		98	72 - 127

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 480-17317-3 MSD

Matrix: Water

Analysis Batch: 56910

Client Sample ID: SVWC-93

Prep Type: Total/NA

Prep Batch: 56771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	ND		1.00	0.915		mg/L		92	72 - 127	7	20

Method: 410.4 - COD

Lab Sample ID: MB 480-55617/27

Matrix: Water

Analysis Batch: 55617

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			03/16/12 17:22	1

Lab Sample ID: LCS 480-55617/28

Matrix: Water

Analysis Batch: 55617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.25		mg/L		101	90 - 110

Lab Sample ID: 480-17317-3 MS

Matrix: Water

Analysis Batch: 55617

Client Sample ID: SVWC-93

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		50.0	42.17		mg/L		84	75 - 125

Lab Sample ID: 480-17317-3 MSD

Matrix: Water

Analysis Batch: 55617

Client Sample ID: SVWC-93

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		50.0	43.45		mg/L		87	75 - 125	3	20

Method: SM 2340C - Hardness, Total

Lab Sample ID: MB 480-56951/3

Matrix: Water

Analysis Batch: 56951

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.0	0.53	mg/L			03/27/12 15:15	1

Lab Sample ID: LCS 480-56951/4

Matrix: Water

Analysis Batch: 56951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	250	256.0		mg/L		102	90 - 110

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method: SM 2340C - Hardness, Total (Continued)

Lab Sample ID: 480-17317-3 MS

Matrix: Water

Analysis Batch: 56951

Client Sample ID: SVWC-93

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	100		100	160.0	F	mg/L		60	74 - 130

Lab Sample ID: 480-17317-3 MSD

Matrix: Water

Analysis Batch: 56951

Client Sample ID: SVWC-93

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hardness as calcium carbonate	100		100	180.0		mg/L		80	74 - 130	12	15

QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

GC/MS VOA

Analysis Batch: 55530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	624	
480-17317-2	PW-2	Total/NA	Water	624	
480-17317-3	SVWC-93	Total/NA	Water	624	
480-17317-3 MS	SVWC-93	Total/NA	Water	624	
480-17317-3 MSD	SVWC-93	Total/NA	Water	624	
480-17317-4	SVWC-94	Total/NA	Water	624	
480-17317-5	SVWC-96	Total/NA	Water	624	
480-17317-6	TRIP BLANK	Total/NA	Water	624	
480-17317-7	DUP	Total/NA	Water	624	
LCS 480-55530/4	Lab Control Sample	Total/NA	Water	624	
MB 480-55530/5	Method Blank	Total/NA	Water	624	

Metals

Prep Batch: 55480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	245.1	
480-17317-2	PW-2	Total/NA	Water	245.1	
480-17317-4	SVWC-94	Total/NA	Water	245.1	
480-17317-5	SVWC-96	Total/NA	Water	245.1	
480-17317-5 MS	SVWC-96	Total/NA	Water	245.1	
480-17317-5 MSD	SVWC-96	Total/NA	Water	245.1	
LCS 480-55480/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 480-55480/1-A	Method Blank	Total/NA	Water	245.1	

Analysis Batch: 55556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	245.1	55480
480-17317-2	PW-2	Total/NA	Water	245.1	55480
480-17317-4	SVWC-94	Total/NA	Water	245.1	55480
480-17317-5	SVWC-96	Total/NA	Water	245.1	55480
480-17317-5 MS	SVWC-96	Total/NA	Water	245.1	55480
480-17317-5 MSD	SVWC-96	Total/NA	Water	245.1	55480
LCS 480-55480/2-A	Lab Control Sample	Total/NA	Water	245.1	55480
MB 480-55480/1-A	Method Blank	Total/NA	Water	245.1	55480

Prep Batch: 55599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	200.7	
480-17317-2	PW-2	Total/NA	Water	200.7	
480-17317-3	SVWC-93	Total/NA	Water	200.7	
480-17317-3 MS	SVWC-93	Total/NA	Water	200.7	
480-17317-3 MSD	SVWC-93	Total/NA	Water	200.7	
480-17317-4	SVWC-94	Total/NA	Water	200.7	
480-17317-5	SVWC-96	Total/NA	Water	200.7	
480-17317-7	DUP	Total/NA	Water	200.7	
LCS 480-55599/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-55599/1-A	Method Blank	Total/NA	Water	200.7	

Prep Batch: 55601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	200.8	

QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Metals (Continued)

Prep Batch: 55601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-2	PW-2	Total/NA	Water	200.8	
480-17317-3	SVWC-93	Total/NA	Water	200.8	
480-17317-3 MS	SVWC-93	Total/NA	Water	200.8	
480-17317-3 MSD	SVWC-93	Total/NA	Water	200.8	
480-17317-4	SVWC-94	Total/NA	Water	200.8	
480-17317-5	SVWC-96	Total/NA	Water	200.8	
480-17317-7	DUP	Total/NA	Water	200.8	
LCS 480-55601/2-A	Lab Control Sample	Total/NA	Water	200.8	
MB 480-55601/1-A	Method Blank	Total/NA	Water	200.8	

Prep Batch: 55752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-3	SVWC-93	Total/NA	Water	245.1	
480-17317-3 MS	SVWC-93	Total/NA	Water	245.1	
480-17317-3 MSD	SVWC-93	Total/NA	Water	245.1	
480-17317-7	DUP	Total/NA	Water	245.1	
LCS 480-55752/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 480-55752/1-A	Method Blank	Total/NA	Water	245.1	

Analysis Batch: 55800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-3	SVWC-93	Total/NA	Water	245.1	55752
480-17317-3 MS	SVWC-93	Total/NA	Water	245.1	55752
480-17317-3 MSD	SVWC-93	Total/NA	Water	245.1	55752
480-17317-7	DUP	Total/NA	Water	245.1	55752
LCS 480-55752/2-A	Lab Control Sample	Total/NA	Water	245.1	55752
MB 480-55752/1-A	Method Blank	Total/NA	Water	245.1	55752

Analysis Batch: 55927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	200.7 Rev 4.4	55599
480-17317-2	PW-2	Total/NA	Water	200.7 Rev 4.4	55599
480-17317-3	SVWC-93	Total/NA	Water	200.7 Rev 4.4	55599
480-17317-3 MS	SVWC-93	Total/NA	Water	200.7 Rev 4.4	55599
480-17317-3 MSD	SVWC-93	Total/NA	Water	200.7 Rev 4.4	55599
480-17317-4	SVWC-94	Total/NA	Water	200.7 Rev 4.4	55599
480-17317-5	SVWC-96	Total/NA	Water	200.7 Rev 4.4	55599
480-17317-7	DUP	Total/NA	Water	200.7 Rev 4.4	55599
LCS 480-55599/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	55599
MB 480-55599/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	55599

Analysis Batch: 55944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	200.8	55601
480-17317-2	PW-2	Total/NA	Water	200.8	55601
480-17317-3	SVWC-93	Total/NA	Water	200.8	55601
480-17317-3 MS	SVWC-93	Total/NA	Water	200.8	55601
480-17317-3 MSD	SVWC-93	Total/NA	Water	200.8	55601
480-17317-4	SVWC-94	Total/NA	Water	200.8	55601
480-17317-5	SVWC-96	Total/NA	Water	200.8	55601
480-17317-7	DUP	Total/NA	Water	200.8	55601
LCS 480-55601/2-A	Lab Control Sample	Total/NA	Water	200.8	55601

QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Metals (Continued)

Analysis Batch: 55944 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-55601/1-A	Method Blank	Total/NA	Water	200.8	55601

General Chemistry

Analysis Batch: 55617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	410.4	
480-17317-2	PW-2	Total/NA	Water	410.4	
480-17317-3	SVWC-93	Total/NA	Water	410.4	
480-17317-3 MS	SVWC-93	Total/NA	Water	410.4	
480-17317-3 MSD	SVWC-93	Total/NA	Water	410.4	
480-17317-4	SVWC-94	Total/NA	Water	410.4	
480-17317-5	SVWC-96	Total/NA	Water	410.4	
480-17317-7	DUP	Total/NA	Water	410.4	
LCS 480-55617/28	Lab Control Sample	Total/NA	Water	410.4	
MB 480-55617/27	Method Blank	Total/NA	Water	410.4	

Prep Batch: 56056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-2	PW-2	Total/NA	Water	351.2	
480-17317-4	SVWC-94	Total/NA	Water	351.2	
480-17317-7	DUP	Total/NA	Water	351.2	
LCS 480-56056/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-56056/1-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 56127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	310.2	
480-17317-2	PW-2	Total/NA	Water	310.2	
480-17317-3	SVWC-93	Total/NA	Water	310.2	
480-17317-3 MS	SVWC-93	Total/NA	Water	310.2	
480-17317-3 MSD	SVWC-93	Total/NA	Water	310.2	
480-17317-4	SVWC-94	Total/NA	Water	310.2	
480-17317-5	SVWC-96	Total/NA	Water	310.2	
480-17317-7	DUP	Total/NA	Water	310.2	
LCS 480-56127/6	Lab Control Sample	Total/NA	Water	310.2	
MB 480-56127/7	Method Blank	Total/NA	Water	310.2	

Prep Batch: 56220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	351.2	
LCS 480-56220/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-56220/1-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 56255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-2	PW-2	Total/NA	Water	351.2	56056
480-17317-4	SVWC-94	Total/NA	Water	351.2	56056
480-17317-7	DUP	Total/NA	Water	351.2	56056
LCS 480-56056/2-A	Lab Control Sample	Total/NA	Water	351.2	56056
MB 480-56056/1-A	Method Blank	Total/NA	Water	351.2	56056

QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

General Chemistry (Continued)

Prep Batch: 56310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-5	SVWC-96	Total/NA	Water	351.2	
LCS 480-56310/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-56310/1-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 56559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	351.2	56220
480-17317-5	SVWC-96	Total/NA	Water	351.2	56310
LCS 480-56220/2-A	Lab Control Sample	Total/NA	Water	351.2	56220
LCS 480-56310/2-A	Lab Control Sample	Total/NA	Water	351.2	56310
MB 480-56220/1-A	Method Blank	Total/NA	Water	351.2	56220
MB 480-56310/1-A	Method Blank	Total/NA	Water	351.2	56310

Prep Batch: 56771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-3	SVWC-93	Total/NA	Water	351.2	
480-17317-3 MS	SVWC-93	Total/NA	Water	351.2	
480-17317-3 MSD	SVWC-93	Total/NA	Water	351.2	
LCS 480-56771/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-56771/1-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 56910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-3	SVWC-93	Total/NA	Water	351.2	56771
480-17317-3 MS	SVWC-93	Total/NA	Water	351.2	56771
480-17317-3 MSD	SVWC-93	Total/NA	Water	351.2	56771
LCS 480-56771/2-A	Lab Control Sample	Total/NA	Water	351.2	56771
MB 480-56771/1-A	Method Blank	Total/NA	Water	351.2	56771

Analysis Batch: 56951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17317-1	PW-1	Total/NA	Water	SM 2340C	
480-17317-2	PW-2	Total/NA	Water	SM 2340C	
480-17317-3	SVWC-93	Total/NA	Water	SM 2340C	
480-17317-3 MS	SVWC-93	Total/NA	Water	SM 2340C	
480-17317-3 MSD	SVWC-93	Total/NA	Water	SM 2340C	
480-17317-4	SVWC-94	Total/NA	Water	SM 2340C	
480-17317-5	SVWC-96	Total/NA	Water	SM 2340C	
480-17317-7	DUP	Total/NA	Water	SM 2340C	
LCS 480-56951/4	Lab Control Sample	Total/NA	Water	SM 2340C	
MB 480-56951/3	Method Blank	Total/NA	Water	SM 2340C	

Lab Chronicle

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: PW-1

Date Collected: 03/14/12 14:00

Date Received: 03/15/12 09:00

Lab Sample ID: 480-17317-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	55530	03/16/12 17:27	RJ	TAL BUF
Total/NA	Prep	245.1			55480	03/16/12 08:25	JM	TAL BUF
Total/NA	Analysis	245.1		1	55556	03/16/12 11:26	JM	TAL BUF
Total/NA	Prep	200.7			55599	03/19/12 08:45	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	55927	03/19/12 15:13	MM	TAL BUF
Total/NA	Prep	200.8			55601	03/19/12 08:15	SS	TAL BUF
Total/NA	Analysis	200.8		1	55944	03/19/12 19:56	JRK	TAL BUF
Total/NA	Analysis	410.4		1	55617	03/16/12 18:28	KJ	TAL BUF
Total/NA	Analysis	310.2		1	56127	03/20/12 11:33	PN	TAL BUF
Total/NA	Prep	351.2			56220	03/21/12 16:54	KJ	TAL BUF
Total/NA	Analysis	351.2		1	56559	03/23/12 09:21	PN	TAL BUF
Total/NA	Analysis	SM 2340C		1	56951	03/27/12 15:15	EGN	TAL BUF

Client Sample ID: PW-2

Date Collected: 03/14/12 14:25

Date Received: 03/15/12 09:00

Lab Sample ID: 480-17317-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	55530	03/16/12 17:51	RJ	TAL BUF
Total/NA	Prep	245.1			55480	03/16/12 08:25	JM	TAL BUF
Total/NA	Analysis	245.1		1	55556	03/16/12 11:27	JM	TAL BUF
Total/NA	Prep	200.7			55599	03/19/12 08:45	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	55927	03/19/12 15:15	MM	TAL BUF
Total/NA	Prep	200.8			55601	03/19/12 08:15	SS	TAL BUF
Total/NA	Analysis	200.8		1	55944	03/19/12 20:01	JRK	TAL BUF
Total/NA	Analysis	410.4		1	55617	03/16/12 18:32	KJ	TAL BUF
Total/NA	Analysis	310.2		1	56127	03/20/12 11:33	PN	TAL BUF
Total/NA	Prep	351.2			56056	03/20/12 16:00	KJ	TAL BUF
Total/NA	Analysis	351.2		1	56255	03/21/12 14:41	PN	TAL BUF
Total/NA	Analysis	SM 2340C		1	56951	03/27/12 15:15	EGN	TAL BUF

Client Sample ID: SVWC-93

Date Collected: 03/14/12 11:55

Date Received: 03/15/12 09:00

Lab Sample ID: 480-17317-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	55530	03/16/12 18:13	RJ	TAL BUF
Total/NA	Prep	245.1			55752	03/19/12 08:50	JM	TAL BUF
Total/NA	Analysis	245.1		1	55800	03/19/12 11:55	JM	TAL BUF
Total/NA	Prep	200.7			55599	03/19/12 08:45	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	55927	03/19/12 15:17	MM	TAL BUF
Total/NA	Prep	200.8			55601	03/19/12 08:15	SS	TAL BUF
Total/NA	Analysis	200.8		1	55944	03/19/12 20:06	JRK	TAL BUF

Lab Chronicle

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: SVWC-93

Lab Sample ID: 480-17317-3

Date Collected: 03/14/12 11:55

Matrix: Water

Date Received: 03/15/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	55617	03/16/12 18:37	KJ	TAL BUF
Total/NA	Analysis	310.2		1	56127	03/20/12 11:33	PN	TAL BUF
Total/NA	Prep	351.2			56771	03/26/12 17:54	KJ	TAL BUF
Total/NA	Analysis	351.2		1	56910	03/27/12 11:01	PN	TAL BUF
Total/NA	Analysis	SM 2340C		1	56951	03/27/12 15:15	EGN	TAL BUF

Client Sample ID: SVWC-94

Lab Sample ID: 480-17317-4

Date Collected: 03/14/12 12:20

Matrix: Water

Date Received: 03/15/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	55530	03/16/12 19:23	RJ	TAL BUF
Total/NA	Prep	245.1			55480	03/16/12 08:25	JM	TAL BUF
Total/NA	Analysis	245.1		1	55556	03/16/12 11:34	JM	TAL BUF
Total/NA	Prep	200.7			55599	03/19/12 08:45	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	55927	03/19/12 15:27	MM	TAL BUF
Total/NA	Prep	200.8			55601	03/19/12 08:15	SS	TAL BUF
Total/NA	Analysis	200.8		1	55944	03/19/12 20:43	JRK	TAL BUF
Total/NA	Analysis	410.4		1	55617	03/16/12 18:51	KJ	TAL BUF
Total/NA	Analysis	310.2		1	56127	03/20/12 11:34	PN	TAL BUF
Total/NA	Prep	351.2			56056	03/20/12 16:00	KJ	TAL BUF
Total/NA	Analysis	351.2		1	56255	03/21/12 13:52	PN	TAL BUF
Total/NA	Analysis	SM 2340C		1	56951	03/27/12 15:15	EGN	TAL BUF

Client Sample ID: SVWC-96

Lab Sample ID: 480-17317-5

Date Collected: 03/14/12 12:35

Matrix: Water

Date Received: 03/15/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	55530	03/16/12 19:45	RJ	TAL BUF
Total/NA	Prep	245.1			55480	03/16/12 08:25	JM	TAL BUF
Total/NA	Analysis	245.1		1	55556	03/16/12 11:36	JM	TAL BUF
Total/NA	Prep	200.7			55599	03/19/12 08:45	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	55927	03/19/12 15:29	MM	TAL BUF
Total/NA	Prep	200.8			55601	03/19/12 08:15	SS	TAL BUF
Total/NA	Analysis	200.8		1	55944	03/19/12 20:48	JRK	TAL BUF
Total/NA	Analysis	410.4		1	55617	03/16/12 19:00	KJ	TAL BUF
Total/NA	Analysis	310.2		1	56127	03/20/12 11:34	PN	TAL BUF
Total/NA	Prep	351.2			56310	03/22/12 11:06	PN	TAL BUF
Total/NA	Analysis	351.2		1	56559	03/23/12 10:19	PN	TAL BUF
Total/NA	Analysis	SM 2340C		1	56951	03/27/12 15:15	EGN	TAL BUF

Lab Chronicle

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-17317-6

Date Collected: 03/14/12 00:00

Matrix: Water

Date Received: 03/15/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	55530	03/16/12 20:09	RJ	TAL BUF

Client Sample ID: DUP

Lab Sample ID: 480-17317-7

Date Collected: 03/14/12 11:55

Matrix: Water

Date Received: 03/15/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	55530	03/16/12 20:32	RJ	TAL BUF
Total/NA	Prep	245.1			55752	03/19/12 08:50	JM	TAL BUF
Total/NA	Analysis	245.1		1	55800	03/19/12 12:02	JM	TAL BUF
Total/NA	Prep	200.7			55599	03/19/12 08:45	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	55927	03/19/12 15:31	MM	TAL BUF
Total/NA	Prep	200.8			55601	03/19/12 08:15	SS	TAL BUF
Total/NA	Analysis	200.8		1	55944	03/19/12 20:53	JRK	TAL BUF
Total/NA	Analysis	410.4		1	55617	03/16/12 18:56	KJ	TAL BUF
Total/NA	Analysis	310.2		1	56127	03/20/12 11:34	PN	TAL BUF
Total/NA	Prep	351.2			56056	03/20/12 16:00	KJ	TAL BUF
Total/NA	Analysis	351.2		1	56255	03/21/12 14:41	PN	TAL BUF
Total/NA	Analysis	SM 2340C		1	56951	03/27/12 15:15	EGN	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	Federal		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC Secondary AB	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
200.8	Metals (ICP/MS)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
SM 2340C	Hardness, Total	SM	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Sterling Environmental Engineering PC
Project/Site: Ramapo Landfill

TestAmerica Job ID: 480-17317-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-17317-1	PW-1	Water	03/14/12 14:00	03/15/12 09:00
480-17317-2	PW-2	Water	03/14/12 14:25	03/15/12 09:00
480-17317-3	SVWC-93	Water	03/14/12 11:55	03/15/12 09:00
480-17317-4	SVWC-94	Water	03/14/12 12:20	03/15/12 09:00
480-17317-5	SVWC-96	Water	03/14/12 12:35	03/15/12 09:00
480-17317-6	TRIP BLANK	Water	03/14/12 00:00	03/15/12 09:00
480-17317-7	DUP	Water	03/14/12 11:55	03/15/12 09:00

Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-17317-1

Login Number: 17317

List Source: TestAmerica Buffalo

List Number: 1

Creator: May, Joel M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	LAB TO CHECK