APPENDIX E

AUGUST 21, 2013
CHEECHUNK CANAL SEEP SAMPLING
ANALYTICAL RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Buffalo
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Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-44452-1
Client Project/Site: Orange County Landfill

For:
Sterling Environmental Engineering PC
24 Wade Road
Latham, New York 12110

Attn: Nathan J Shaffer

Authorized for release by:
9/4/2013 3:48:31 PM

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LINKS

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

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

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

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Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
B	Compound was found in the blank and sample.
b	Result Detected in the Unseeded Control blank (USB).

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
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)

Job ID: 480-44452-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-44452-1

Comments
No additional comments.

Receipt
The samples were received on 8/23/2013 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

HPLC
Method(s) 300.0: The continuing calibration verification (CCV) for Bromide associated with batch 135669 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The Method Blank for batch 480-135533 contained total potassium 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 GW-A (480-44452-1), GW-B (480-44452-2), GW-D (480-44452-3) was not performed.

Method(s) 6010B: The Method Blank for batch 480-136979 contained dissolved aluminum, barium, calcium, manganese, and zinc above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of sample GW-D (480-44452-3) was not performed.

No other analytical or quality issues were noted.

General Chemistry
Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: GW-D (480-44452-3). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 310.2: The method blank for batch 136002 contained Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.GW-A (480-44452-1), GW-B (480-44452-2), GW-D (480-44452-3)

Method(s) 351.2: The method blank for batch 135990 contained TKN above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.GW-B (480-44452-2), GW-D (480-44452-3)

Method(s) SM 5210B: For batch # 135640, the USB dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L. The associated sample results are reported. (USB 480-135640/1)

Method(s) 7196A: The following samples were received outside of holding time: GW-A (480-44452-1), GW-B (480-44452-2), GW-D (480-44452-3).

Method(s) 335.4, 9012A: The method blank for batch 135893 contained Cyanide above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. GW-B (480-44452-2)

No other analytical or quality issues were noted.

Detection Summary

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Client Sample ID: GW-A — Lab Sample ID: 480-44452-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.23		0.20	0.060	mg/L	1		6010B	Total/NA
Barium	0.022		0.0020	0.00070	mg/L	1		6010B	Total/NA
Boron	0.092		0.020	0.0040	mg/L	1		6010B	Total/NA
Calcium	56		0.50	0.10	mg/L	1		6010B	Total/NA
Copper	0.0044	J	0.010	0.0016	mg/L	1		6010B	Total/NA
Iron	0.34		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	9.3		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.047		0.0030	0.00040	mg/L	1		6010B	Total/NA
Potassium	2.2	B	0.50	0.10	mg/L	1		6010B	Total/NA
Sodium	16		1.0	0.32	mg/L	1		6010B	Total/NA
Zinc	0.0017	J	0.010	0.0015	mg/L	1		6010B	Total/NA
Chloride	23		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	27		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	170	B	50	20	mg/L	5		310.2	Total/NA
Ammonia	0.018	J	0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.50		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate as N	0.33		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	18		10	5.0	mg/L	1		410.4	Total/NA
Chromium, hexavalent	0.0087	J H	0.010	0.0050	mg/L	1		7196A	Total/NA
Total Organic Carbon	5.6		1.0	0.43	mg/L	1		9060	Total/NA
Hardness	180		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	250		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Turbidity	7.6		1.0	1.0	NTU	1		180.1	Total/NA
Color	50		5.0	5.0	Color Units	1		SM 2120B	Total/NA

Client Sample ID: GW-B — Lab Sample ID: 480-44452-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.67		0.20	0.060	mg/L	1		6010B	Total/NA
Barium	0.032		0.0020	0.00070	mg/L	1		6010B	Total/NA
Boron	0.080		0.020	0.0040	mg/L	1		6010B	Total/NA
Calcium	72		0.50	0.10	mg/L	1		6010B	Total/NA
Chromium	0.0018	J	0.0040	0.0010	mg/L	1		6010B	Total/NA
Cobalt	0.0065		0.0040	0.00063	mg/L	1		6010B	Total/NA
Copper	0.040		0.010	0.0016	mg/L	1		6010B	Total/NA
Iron	1.5		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	12		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.93		0.0030	0.00040	mg/L	1		6010B	Total/NA
Nickel	0.027		0.010	0.0013	mg/L	1		6010B	Total/NA
Potassium	3.3	B	0.50	0.10	mg/L	1		6010B	Total/NA
Sodium	2.0		1.0	0.32	mg/L	1		6010B	Total/NA
Zinc	0.011		0.010	0.0015	mg/L	1		6010B	Total/NA
Chloride	3.0		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	86		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	130	B	50	20	mg/L	5		310.2	Total/NA
Ammonia	0.075		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	4.1	B	0.40	0.30	mg/L	2		351.2	Total/NA
Nitrate as N	0.28		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	210		10	5.0	mg/L	1		410.4	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Client Sample ID: GW-B (Continued) — Lab Sample ID: 480-44452-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.012	B	0.010	0.0050	mg/L	1		9012A	Total/NA
Total Organic Carbon	67		1.0	0.43	mg/L	1		9060	Total/NA
Phenolics, Total Recoverable	0.0069	J	0.010	0.0050	mg/L	1		9066	Total/NA
Hardness	240		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	430		10	4.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	2.0	b	2.0	2.0	mg/L	1		SM 5210B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	19		1.0	1.0	NTU	1		180.1	Total/NA
Color	400		50	50	Color Units	10		SM 2120B	Total/NA

Client Sample ID: GW-D — Lab Sample ID: 480-44452-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4.4		0.20	0.060	mg/L	1		6010B	Total/NA
Arsenic	0.11		0.010	0.0056	mg/L	1		6010B	Total/NA
Barium	0.90		0.0020	0.00070	mg/L	1		6010B	Total/NA
Boron	0.25		0.020	0.0040	mg/L	1		6010B	Total/NA
Cadmium	0.0014		0.0010	0.00050	mg/L	1		6010B	Total/NA
Calcium	140		0.50	0.10	mg/L	1		6010B	Total/NA
Chromium	0.0058		0.0040	0.0010	mg/L	1		6010B	Total/NA
Cobalt	0.0051		0.0040	0.00063	mg/L	1		6010B	Total/NA
Copper	0.013		0.010	0.0016	mg/L	1		6010B	Total/NA
Iron	12		0.050	0.019	mg/L	1		6010B	Total/NA
Lead	0.0075		0.0050	0.0030	mg/L	1		6010B	Total/NA
Magnesium	57		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	1.1		0.0030	0.00040	mg/L	1		6010B	Total/NA
Nickel	0.015		0.010	0.0013	mg/L	1		6010B	Total/NA
Potassium	13	B	0.50	0.10	mg/L	1		6010B	Total/NA
Sodium	64		1.0	0.32	mg/L	1		6010B	Total/NA
Vanadium	0.0067		0.0050	0.0015	mg/L	1		6010B	Total/NA
Zinc	0.033		0.010	0.0015	mg/L	1		6010B	Total/NA
Aluminum	0.15	J B	0.20	0.060	mg/L	1		6010B	Dissolved
Barium	0.66	B	0.0020	0.00070	mg/L	1		6010B	Dissolved
Boron	0.20		0.020	0.0040	mg/L	1		6010B	Dissolved
Cadmium	0.00054	J	0.0010	0.00050	mg/L	1		6010B	Dissolved
Calcium	130	B	0.50	0.10	mg/L	1		6010B	Dissolved
Copper	0.0045	J	0.010	0.0016	mg/L	1		6010B	Dissolved
Lead	0.0040	J	0.0050	0.0030	mg/L	1		6010B	Dissolved
Magnesium	52		0.20	0.043	mg/L	1		6010B	Dissolved
Manganese	0.12	B	0.0030	0.00040	mg/L	1		6010B	Dissolved
Nickel	0.0084	J	0.010	0.0013	mg/L	1		6010B	Dissolved
Potassium	11		0.50	0.10	mg/L	1		6010B	Dissolved
Sodium	62		1.0	0.32	mg/L	1		6010B	Dissolved
Zinc	0.0066	J B	0.010	0.0015	mg/L	1		6010B	Dissolved
Bromide	1.0	^ *	0.20	0.073	mg/L	1		300.0	Total/NA
Chloride	73		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	10		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	640	B	100	40	mg/L	10		310.2	Total/NA
Ammonia	8.0		0.10	0.045	mg/L	5		350.1	Total/NA
Total Kjeldahl Nitrogen	8.2	B	1.0	0.75	mg/L	5		351.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-D (Continued)

Lab Sample ID: 480-44452-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.075		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	18		10	5.0	mg/L	1		410.4	Total/NA
Chromium, hexavalent	0.0079	J H	0.010	0.0050	mg/L	1		7196A	Total/NA
Total Organic Carbon	5.5		1.0	0.43	mg/L	1		9060	Total/NA
Hardness	760		10	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	830		40	16	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	13	b	2.0	2.0	mg/L	1		SM 5210B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	7100		25	25	NTU	25		180.1	Total/NA
Color	100		50	50	Color Units	10		SM 2120B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Client Sample ID: GW-A

Date Collected: 08/21/13 16:40
Date Received: 08/23/13 02:00

Lab Sample ID: 480-44452-1

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.23**		0.20	0.060	mg/L		08/23/13 08:20	08/23/13 19:17	1
Antimony	ND		0.020	0.0068	mg/L		08/23/13 08:20	08/23/13 19:17	1
Arsenic	ND		0.010	0.0056	mg/L		08/23/13 08:20	08/23/13 19:17	1
Barium	**0.022**		0.0020	0.00070	mg/L		08/23/13 08:20	08/23/13 19:17	1
Beryllium	ND		0.0020	0.00030	mg/L		08/23/13 08:20	08/23/13 19:17	1
Boron	**0.092**		0.020	0.0040	mg/L		08/23/13 08:20	08/23/13 19:17	1
Cadmium	ND		0.0010	0.00050	mg/L		08/23/13 08:20	08/23/13 19:17	1
Calcium	**56**		0.50	0.10	mg/L		08/23/13 08:20	08/23/13 19:17	1
Chromium	ND		0.0040	0.0010	mg/L		08/23/13 08:20	08/23/13 19:17	1
Cobalt	ND		0.0040	0.00063	mg/L		08/23/13 08:20	08/23/13 19:17	1
Copper	**0.0044**	**J**	0.010	0.0016	mg/L		08/23/13 08:20	08/23/13 19:17	1
Iron	**0.34**		0.050	0.019	mg/L		08/23/13 08:20	08/23/13 19:17	1
Lead	ND		0.0050	0.0030	mg/L		08/23/13 08:20	08/23/13 19:17	1
Magnesium	**9.3**		0.20	0.043	mg/L		08/23/13 08:20	08/23/13 19:17	1
Manganese	**0.047**		0.0030	0.00040	mg/L		08/23/13 08:20	08/23/13 19:17	1
Nickel	ND		0.010	0.0013	mg/L		08/23/13 08:20	08/23/13 19:17	1
Potassium	**2.2**	**B**	0.50	0.10	mg/L		08/23/13 08:20	08/23/13 19:17	1
Selenium	ND		0.015	0.0087	mg/L		08/23/13 08:20	08/23/13 19:17	1
Silver	ND		0.0030	0.0017	mg/L		08/23/13 08:20	08/23/13 19:17	1
Sodium	**16**		1.0	0.32	mg/L		08/23/13 08:20	08/23/13 19:17	1
Thallium	ND		0.020	0.010	mg/L		08/23/13 08:20	08/23/13 19:17	1
Vanadium	ND		0.0050	0.0015	mg/L		08/23/13 08:20	08/23/13 19:17	1
Zinc	**0.0017**	**J**	0.010	0.0015	mg/L		08/23/13 08:20	08/23/13 19:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/23/13 08:35	08/23/13 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND	^ *	0.20	0.073	mg/L			08/24/13 02:26	1
Chloride	**23**		0.50	0.28	mg/L			08/24/13 02:26	1
Sulfate	**27**		2.0	0.35	mg/L			08/26/13 18:06	1
Alkalinity, Total	**170**	**B**	50	20	mg/L			08/26/13 21:27	5
Ammonia	**0.018**	**J**	0.020	0.0090	mg/L			08/23/13 16:01	1
Total Kjeldahl Nitrogen	**0.50**		0.20	0.15	mg/L		08/26/13 07:41	08/26/13 18:41	1
Nitrate as N	**0.33**		0.050	0.020	mg/L			08/23/13 10:30	1
Chemical Oxygen Demand	**18**		10	5.0	mg/L			08/27/13 16:49	1
Chromium, hexavalent	**0.0087**	**J H**	0.010	0.0050	mg/L			08/23/13 07:45	1
Cyanide, Total	ND		0.010	0.0050	mg/L		08/23/13 11:26	08/26/13 09:20	1
Total Organic Carbon	**5.6**		1.0	0.43	mg/L			08/23/13 16:46	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		08/26/13 08:00	08/27/13 17:35	1
Hardness	**180**		4.0	1.1	mg/L			08/27/13 12:49	1
Total Dissolved Solids	**250**		10	4.0	mg/L			08/26/13 15:11	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/23/13 10:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**7.6**		1.0	1.0	NTU			08/23/13 06:00	1
Color	**50**		5.0	5.0	Color Units			08/23/13 11:30	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Client Sample ID: GW-B

Lab Sample ID: 480-44452-2

Date Collected: 08/21/13 16:25
Date Received: 08/23/13 02:00

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.67		0.20	0.060	mg/L		08/23/13 08:20	08/23/13 19:19	1
Antimony	ND		0.020	0.0068	mg/L		08/23/13 08:20	08/23/13 19:19	1
Arsenic	ND		0.010	0.0056	mg/L		08/23/13 08:20	08/23/13 19:19	1
Barium	0.032		0.0020	0.00070	mg/L		08/23/13 08:20	08/23/13 19:19	1
Beryllium	ND		0.0020	0.00030	mg/L		08/23/13 08:20	08/23/13 19:19	1
Boron	0.080		0.020	0.0040	mg/L		08/23/13 08:20	08/23/13 19:19	1
Cadmium	ND		0.0010	0.00050	mg/L		08/23/13 08:20	08/23/13 19:19	1
Calcium	72		0.50	0.10	mg/L		08/23/13 08:20	08/23/13 19:19	1
Chromium	0.0018	J	0.0040	0.0010	mg/L		08/23/13 08:20	08/23/13 19:19	1
Cobalt	0.0065		0.0040	0.00063	mg/L		08/23/13 08:20	08/23/13 19:19	1
Copper	0.040		0.010	0.0016	mg/L		08/23/13 08:20	08/23/13 19:19	1
Iron	1.5		0.050	0.019	mg/L		08/23/13 08:20	08/23/13 19:19	1
Lead	ND		0.0050	0.0030	mg/L		08/23/13 08:20	08/23/13 19:19	1
Magnesium	12		0.20	0.043	mg/L		08/23/13 08:20	08/23/13 19:19	1
Manganese	0.93		0.0030	0.00040	mg/L		08/23/13 08:20	08/23/13 19:19	1
Nickel	0.027		0.010	0.0013	mg/L		08/23/13 08:20	08/23/13 19:19	1
Potassium	3.3	B	0.50	0.10	mg/L		08/23/13 08:20	08/23/13 19:19	1
Selenium	ND		0.015	0.0087	mg/L		08/23/13 08:20	08/23/13 19:19	1
Silver	ND		0.0030	0.0017	mg/L		08/23/13 08:20	08/23/13 19:19	1
Sodium	2.0		1.0	0.32	mg/L		08/23/13 08:20	08/23/13 19:19	1
Thallium	ND		0.020	0.010	mg/L		08/23/13 08:20	08/23/13 19:19	1
Vanadium	ND		0.0050	0.0015	mg/L		08/23/13 08:20	08/23/13 19:19	1
Zinc	0.011		0.010	0.0015	mg/L		08/23/13 08:20	08/23/13 19:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/23/13 08:35	08/23/13 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND	^ *	0.20	0.073	mg/L			08/24/13 02:36	1
Chloride	3.0		0.50	0.28	mg/L			08/24/13 02:36	1
Sulfate	86		2.0	0.35	mg/L			08/26/13 18:17	1
Alkalinity, Total	130	B	50	20	mg/L			08/26/13 21:27	5
Ammonia	0.075		0.020	0.0090	mg/L			08/23/13 16:02	1
Total Kjeldahl Nitrogen	4.1	B	0.40	0.30	mg/L		08/26/13 07:50	08/26/13 20:17	2
Nitrate as N	0.28		0.050	0.020	mg/L			08/23/13 10:31	1
Chemical Oxygen Demand	210		10	5.0	mg/L			08/30/13 23:30	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			08/23/13 07:45	1
Cyanide, Total	0.012	B	0.010	0.0050	mg/L		08/23/13 11:26	08/26/13 09:21	1
Total Organic Carbon	67		1.0	0.43	mg/L			08/23/13 17:14	1
Phenolics, Total Recoverable	0.0069	J	0.010	0.0050	mg/L		08/26/13 08:00	08/27/13 17:44	1
Hardness	240		4.0	1.1	mg/L			08/27/13 12:49	1
Total Dissolved Solids	430		10	4.0	mg/L			08/26/13 15:12	1
Biochemical Oxygen Demand	2.0	b	2.0	2.0	mg/L			08/23/13 10:08	1
Analyte	**Result**	**Qualifier**	**RL**	**RL**	**Unit**	**D**	**Prepared**	**Analyzed**	**Dil Fac**
Turbidity	19		1.0	1.0	NTU			08/23/13 06:00	1
Color	400		50	50	Color Units			08/23/13 11:30	10

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Client Sample ID: GW-D

Lab Sample ID: 480-44452-3

Date Collected: 08/21/13 16:00
Matrix: Water
Date Received: 08/23/13 02:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.4		0.20	0.060	mg/L		08/23/13 08:20	08/23/13 19:21	1
Antimony	ND		0.020	0.0068	mg/L		08/23/13 08:20	08/23/13 19:21	1
Arsenic	0.11		0.010	0.0056	mg/L		08/23/13 08:20	08/23/13 19:21	1
Barium	0.90		0.0020	0.00070	mg/L		08/23/13 08:20	08/23/13 19:21	1
Beryllium	ND		0.0020	0.00030	mg/L		08/23/13 08:20	08/23/13 19:21	1
Boron	0.25		0.020	0.0040	mg/L		08/23/13 08:20	08/23/13 19:21	1
Cadmium	0.0014		0.0010	0.00050	mg/L		08/23/13 08:20	08/23/13 19:21	1
Calcium	140		0.50	0.10	mg/L		08/23/13 08:20	08/23/13 19:21	1
Chromium	0.0058		0.0040	0.0010	mg/L		08/23/13 08:20	08/23/13 19:21	1
Cobalt	0.0051		0.0040	0.00063	mg/L		08/23/13 08:20	08/23/13 19:21	1
Copper	0.013		0.010	0.0016	mg/L		08/23/13 08:20	08/23/13 19:21	1
Iron	12		0.050	0.019	mg/L		08/23/13 08:20	08/23/13 19:21	1
Lead	0.0075		0.0050	0.0030	mg/L		08/23/13 08:20	08/23/13 19:21	1
Magnesium	57		0.20	0.043	mg/L		08/23/13 08:20	08/23/13 19:21	1
Manganese	1.1		0.0030	0.00040	mg/L		08/23/13 08:20	08/23/13 19:21	1
Nickel	0.015		0.010	0.0013	mg/L		08/23/13 08:20	08/23/13 19:21	1
Potassium	13	B	0.50	0.10	mg/L		08/23/13 08:20	08/23/13 19:21	1
Selenium	ND		0.015	0.0087	mg/L		08/23/13 08:20	08/23/13 19:21	1
Silver	ND		0.0030	0.0017	mg/L		08/23/13 08:20	08/23/13 19:21	1
Sodium	64		1.0	0.32	mg/L		08/23/13 08:20	08/23/13 19:21	1
Thallium	ND		0.020	0.010	mg/L		08/23/13 08:20	08/23/13 19:21	1
Vanadium	0.0067		0.0050	0.0015	mg/L		08/23/13 08:20	08/23/13 19:21	1
Zinc	0.033		0.010	0.0015	mg/L		08/23/13 08:20	08/23/13 19:21	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.15	J B	0.20	0.060	mg/L		09/03/13 09:40	09/03/13 16:06	1
Antimony	ND		0.020	0.0068	mg/L		09/03/13 09:40	09/03/13 16:06	1
Arsenic	ND		0.010	0.0056	mg/L		09/03/13 09:40	09/03/13 16:06	1
Barium	0.66	B	0.0020	0.00070	mg/L		09/03/13 09:40	09/03/13 16:06	1
Beryllium	ND		0.0020	0.00030	mg/L		09/03/13 09:40	09/03/13 16:06	1
Boron	0.20		0.020	0.0040	mg/L		08/27/13 08:20	08/28/13 17:10	1
Cadmium	0.00054	J	0.0010	0.00050	mg/L		09/03/13 09:40	09/03/13 16:06	1
Calcium	130	B	0.50	0.10	mg/L		09/03/13 09:40	09/03/13 16:06	1
Chromium	ND		0.0040	0.0010	mg/L		09/03/13 09:40	09/03/13 16:06	1
Cobalt	ND		0.0040	0.00063	mg/L		09/03/13 09:40	09/03/13 16:06	1
Copper	0.0045	J	0.010	0.0016	mg/L		09/03/13 09:40	09/03/13 18:17	1
Iron	ND		0.050	0.019	mg/L		09/03/13 09:40	09/03/13 16:06	1
Lead	0.0040	J	0.0050	0.0030	mg/L		09/03/13 09:40	09/03/13 16:06	1
Magnesium	52		0.20	0.043	mg/L		09/03/13 09:40	09/03/13 16:06	1
Manganese	0.12	B	0.0030	0.00040	mg/L		09/03/13 09:40	09/03/13 16:06	1
Nickel	0.0084	J	0.010	0.0013	mg/L		09/03/13 09:40	09/03/13 16:06	1
Potassium	11		0.50	0.10	mg/L		09/03/13 09:40	09/03/13 16:06	1
Selenium	ND		0.015	0.0087	mg/L		09/03/13 09:40	09/03/13 16:06	1
Silver	ND		0.0030	0.0017	mg/L		09/03/13 09:40	09/03/13 16:06	1
Sodium	62		1.0	0.32	mg/L		09/03/13 09:40	09/03/13 16:06	1
Thallium	ND		0.020	0.010	mg/L		09/03/13 09:40	09/03/13 16:06	1
Vanadium	ND		0.0050	0.0015	mg/L		09/03/13 09:40	09/03/13 16:06	1
Zinc	0.0066	J B	0.010	0.0015	mg/L		09/03/13 09:40	09/03/13 16:06	1

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Client Sample ID: GW-D

Date Collected: 08/21/13 16:00
Date Received: 08/23/13 02:00

Lab Sample ID: 480-44452-3

Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/23/13 08:35	08/23/13 13:39	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/27/13 08:30	08/27/13 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.0**	**^ ***	0.20	0.073	mg/L			08/24/13 02:46	1
Chloride	**73**		0.50	0.28	mg/L			08/24/13 02:46	1
Sulfate	**10**		2.0	0.35	mg/L			08/26/13 18:27	1
Alkalinity, Total	**640**	**B**	100	40	mg/L			08/26/13 22:04	10
Ammonia	**8.0**		0.10	0.045	mg/L			08/23/13 17:00	5
Total Kjeldahl Nitrogen	**8.2**	**B**	1.0	0.75	mg/L		08/26/13 07:50	08/26/13 20:53	5
Nitrate as N	**0.075**		0.050	0.020	mg/L			08/23/13 10:32	1
Chemical Oxygen Demand	**18**		10	5.0	mg/L			08/27/13 16:49	1
Chromium, hexavalent	**0.0079**	**J H**	0.010	0.0050	mg/L			08/23/13 07:45	1
Cyanide, Total	ND		0.010	0.0050	mg/L		08/23/13 11:26	08/26/13 09:22	1
Total Organic Carbon	**5.5**		1.0	0.43	mg/L			08/23/13 17:41	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		08/26/13 08:00	08/27/13 17:44	1
Hardness	**760**		10	2.6	mg/L			08/27/13 12:49	1
Total Dissolved Solids	**830**		40	16	mg/L			08/26/13 15:13	1
Biochemical Oxygen Demand	**13**	**b**	2.0	2.0	mg/L			08/23/13 10:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**7100**		25	25	NTU			08/23/13 06:00	25
Color	**100**		50	50	Color Units			08/23/13 11:30	10

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-135533/1-A
Matrix: Water
Analysis Batch: 135857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/23/13 08:20	08/23/13 18:18	1
Antimony	ND		0.020	0.0068	mg/L		08/23/13 08:20	08/23/13 18:18	1
Arsenic	ND		0.010	0.0056	mg/L		08/23/13 08:20	08/23/13 18:18	1
Barium	ND		0.0020	0.00070	mg/L		08/23/13 08:20	08/23/13 18:18	1
Beryllium	ND		0.0020	0.00030	mg/L		08/23/13 08:20	08/23/13 18:18	1
Boron	ND		0.020	0.0040	mg/L		08/23/13 08:20	08/23/13 18:18	1
Cadmium	ND		0.0010	0.00050	mg/L		08/23/13 08:20	08/23/13 18:18	1
Calcium	ND		0.50	0.10	mg/L		08/23/13 08:20	08/23/13 18:18	1
Chromium	ND		0.0040	0.0010	mg/L		08/23/13 08:20	08/23/13 18:18	1
Cobalt	ND		0.0040	0.00063	mg/L		08/23/13 08:20	08/23/13 18:18	1
Copper	ND		0.010	0.0016	mg/L		08/23/13 08:20	08/23/13 18:18	1
Iron	ND		0.050	0.019	mg/L		08/23/13 08:20	08/23/13 18:18	1
Lead	ND		0.0050	0.0030	mg/L		08/23/13 08:20	08/23/13 18:18	1
Magnesium	ND		0.20	0.043	mg/L		08/23/13 08:20	08/23/13 18:18	1
Manganese	ND		0.0030	0.00040	mg/L		08/23/13 08:20	08/23/13 18:18	1
Nickel	ND		0.010	0.0013	mg/L		08/23/13 08:20	08/23/13 18:18	1
Potassium	0.225	J	0.50	0.10	mg/L		08/23/13 08:20	08/23/13 18:18	1
Selenium	ND		0.015	0.0087	mg/L		08/23/13 08:20	08/23/13 18:18	1
Silver	ND		0.0030	0.0017	mg/L		08/23/13 08:20	08/23/13 18:18	1
Sodium	ND		1.0	0.32	mg/L		08/23/13 08:20	08/23/13 18:18	1
Thallium	ND		0.020	0.010	mg/L		08/23/13 08:20	08/23/13 18:18	1
Vanadium	ND		0.0050	0.0015	mg/L		08/23/13 08:20	08/23/13 18:18	1
Zinc	ND		0.010	0.0015	mg/L		08/23/13 08:20	08/23/13 18:18	1

Lab Sample ID: LCS 480-135533/2-A
Matrix: Water
Analysis Batch: 135857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.3		mg/L		103	80 - 120
Antimony	0.200	0.202		mg/L		101	80 - 120
Arsenic	0.200	0.202		mg/L		101	80 - 120
Barium	0.200	0.207		mg/L		103	80 - 120
Beryllium	0.200	0.204		mg/L		102	80 - 120
Boron	0.200	0.204		mg/L		102	80 - 120
Cadmium	0.200	0.203		mg/L		102	80 - 120
Calcium	10.0	10.0		mg/L		100	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.200	0.200		mg/L		100	80 - 120
Copper	0.200	0.206		mg/L		103	80 - 120
Iron	10.0	9.99		mg/L		100	80 - 120
Lead	0.200	0.197		mg/L		98	80 - 120
Magnesium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.200	0.202		mg/L		101	80 - 120
Nickel	0.200	0.197		mg/L		99	80 - 120
Potassium	10.0	10.2		mg/L		102	80 - 120
Selenium	0.200	0.199		mg/L		99	80 - 120
Silver	0.0500	0.0521		mg/L		104	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-135533/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135857 — **Prep Batch: 135533**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	10.0	9.94		mg/L		99	80 - 120
Thallium	0.200	0.199		mg/L		99	80 - 120
Vanadium	0.200	0.204		mg/L		102	80 - 120
Zinc	0.200	0.196		mg/L		98	80 - 120

Lab Sample ID: MB 480-135891/1-B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 136502 — **Prep Batch: 136029**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.020	0.0040	mg/L		08/27/13 08:20	08/28/13 16:22	1

Lab Sample ID: LCS 480-135891/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 136502 — **Prep Batch: 136029**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.200	0.206		mg/L		103	80 - 120

Lab Sample ID: LCSD 480-135891/15-B — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 136502 — **Prep Batch: 136029**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.200	0.208		mg/L		104	80 - 120	1	20

Lab Sample ID: MB 480-136834/1-B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 137111 — **Prep Batch: 136979**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.124	J	0.20	0.060	mg/L		09/03/13 09:40	09/03/13 15:18	1
Antimony	ND		0.020	0.0068	mg/L		09/03/13 09:40	09/03/13 15:18	1
Arsenic	ND		0.010	0.0056	mg/L		09/03/13 09:40	09/03/13 15:18	1
Barium	0.000960	J	0.0020	0.00070	mg/L		09/03/13 09:40	09/03/13 15:18	1
Beryllium	ND		0.0020	0.00030	mg/L		09/03/13 09:40	09/03/13 15:18	1
Cadmium	ND		0.0010	0.00050	mg/L		09/03/13 09:40	09/03/13 15:18	1
Calcium	0.388	J	0.50	0.10	mg/L		09/03/13 09:40	09/03/13 15:18	1
Chromium	0.00198	J	0.0040	0.0010	mg/L		09/03/13 09:40	09/03/13 15:18	1
Cobalt	ND		0.0040	0.00063	mg/L		09/03/13 09:40	09/03/13 15:18	1
Copper	ND		0.010	0.0016	mg/L		09/03/13 09:40	09/03/13 15:18	1
Iron	0.0279	J	0.050	0.019	mg/L		09/03/13 09:40	09/03/13 15:18	1
Lead	ND		0.0050	0.0030	mg/L		09/03/13 09:40	09/03/13 15:18	1
Magnesium	ND		0.20	0.043	mg/L		09/03/13 09:40	09/03/13 15:18	1
Manganese	0.000680	J	0.0030	0.00040	mg/L		09/03/13 09:40	09/03/13 15:18	1
Nickel	ND		0.010	0.0013	mg/L		09/03/13 09:40	09/03/13 15:18	1
Potassium	ND		0.50	0.10	mg/L		09/03/13 09:40	09/03/13 15:18	1
Selenium	ND		0.015	0.0087	mg/L		09/03/13 09:40	09/03/13 15:18	1
Silver	ND		0.0030	0.0017	mg/L		09/03/13 09:40	09/03/13 15:18	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 480-136834/1-B
Matrix: Water
Analysis Batch: 137111

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 136979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0	0.32	mg/L		09/03/13 09:40	09/03/13 15:18	1
Thallium	ND		0.020	0.010	mg/L		09/03/13 09:40	09/03/13 15:18	1
Vanadium	ND		0.0050	0.0015	mg/L		09/03/13 09:40	09/03/13 15:18	1
Zinc	0.00416	J	0.010	0.0015	mg/L		09/03/13 09:40	09/03/13 15:18	1

Lab Sample ID: LCS 480-136834/2-B
Matrix: Water
Analysis Batch: 137111

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 136979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.4		mg/L		104	80 - 120
Antimony	0.200	0.203		mg/L		101	80 - 120
Arsenic	0.200	0.206		mg/L		103	80 - 120
Barium	0.200	0.208		mg/L		104	80 - 120
Beryllium	0.200	0.205		mg/L		103	80 - 120
Cadmium	0.200	0.204		mg/L		102	80 - 120
Calcium	10.0	10.6		mg/L		106	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.200	0.201		mg/L		100	80 - 120
Copper	0.200	0.213		mg/L		106	80 - 120
Iron	10.0	10.1		mg/L		101	80 - 120
Lead	0.200	0.199		mg/L		100	80 - 120
Magnesium	10.0	10.1		mg/L		101	80 - 120
Manganese	0.200	0.202		mg/L		101	80 - 120
Nickel	0.200	0.198		mg/L		99	80 - 120
Potassium	10.0	9.96		mg/L		99	80 - 120
Selenium	0.200	0.205		mg/L		102	80 - 120
Silver	0.0500	0.0520		mg/L		104	80 - 120
Sodium	10.0	9.97		mg/L		100	80 - 120
Thallium	0.200	0.203		mg/L		102	80 - 120
Vanadium	0.200	0.206		mg/L		103	80 - 120
Zinc	0.200	0.204		mg/L		102	80 - 120

Lab Sample ID: LCSD 480-136834/3-B
Matrix: Water
Analysis Batch: 137111

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 136979

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	10.0	10.5		mg/L		105	80 - 120	1	20
Antimony	0.200	0.201		mg/L		101	80 - 120	1	20
Arsenic	0.200	0.204		mg/L		102	80 - 120	1	20
Barium	0.200	0.208		mg/L		104	80 - 120	0	20
Beryllium	0.200	0.206		mg/L		103	80 - 120	0	20
Cadmium	0.200	0.204		mg/L		102	80 - 120	0	20
Calcium	10.0	10.6		mg/L		106	80 - 120	1	20
Chromium	0.200	0.208		mg/L		104	80 - 120	1	20
Cobalt	0.200	0.199		mg/L		100	80 - 120	1	20
Copper	0.200	0.208		mg/L		104	80 - 120	2	20
Iron	10.0	10.1		mg/L		101	80 - 120	0	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 480-136834/3-B — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 137111 — **Prep Batch: 136979**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.200	0.198		mg/L		99	80 - 120	1	20
Magnesium	10.0	10.2		mg/L		102	80 - 120	0	20
Manganese	0.200	0.203		mg/L		101	80 - 120	0	20
Nickel	0.200	0.197		mg/L		98	80 - 120	0	20
Potassium	10.0	9.97		mg/L		100	80 - 120	0	20
Selenium	0.200	0.206		mg/L		103	80 - 120	1	20
Silver	0.0500	0.0508		mg/L		102	80 - 120	2	20
Sodium	10.0	9.99		mg/L		100	80 - 120	0	20
Thallium	0.200	0.202		mg/L		101	80 - 120	0	20
Vanadium	0.200	0.206		mg/L		103	80 - 120	0	20
Zinc	0.200	0.205		mg/L		103	80 - 120	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-135544/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135676 — **Prep Batch: 135544**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/23/13 08:35	08/23/13 12:50	1

Lab Sample ID: LCS 480-135544/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135676 — **Prep Batch: 135544**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00683		mg/L		102	80 - 120

Lab Sample ID: MB 480-135891/1-D — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 136156 — **Prep Batch: 136034**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/27/13 08:30	08/27/13 13:02	1

Lab Sample ID: LCS 480-135891/2-D — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 136156 — **Prep Batch: 136034**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00653		mg/L		98	80 - 120

Lab Sample ID: LCSD 480-135891/15-D — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 136156 — **Prep Batch: 136034**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00667	0.00643		mg/L		96	80 - 120	2	20

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 480-135512/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135512

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			08/23/13 06:00	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-135669/52 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND	^	0.20	0.073	mg/L			08/24/13 00:14	1
Chloride	ND		0.50	0.28	mg/L			08/24/13 00:14	1
Sulfate	0.452	J ^	2.0	0.35	mg/L			08/24/13 00:14	1

Lab Sample ID: LCS 480-135669/51 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	2.00	2.34	^ *	mg/L		117	90 - 110
Chloride	20.0	20.4		mg/L		102	90 - 110
Sulfate	20.0	21.9	^	mg/L		109	90 - 110

Lab Sample ID: MB 480-135910/28 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.073	mg/L			08/26/13 17:56	1
Chloride	ND		0.50	0.28	mg/L			08/26/13 17:56	1
Sulfate	ND		2.0	0.35	mg/L			08/26/13 17:56	1

Lab Sample ID: LCS 480-135910/27 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	2.00	2.02		mg/L		101	90 - 110
Chloride	20.0	20.5		mg/L		102	90 - 110
Sulfate	20.0	21.3		mg/L		106	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-136002/100 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10	4.0	mg/L			08/26/13 19:40	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-136002/126 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	4.05	J	10	4.0	mg/L			08/26/13 20:30	1

Lab Sample ID: MB 480-136002/74 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10	4.0	mg/L			08/26/13 17:13	1

Lab Sample ID: LCS 480-136002/125 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	53.4		mg/L		107	90 - 110

Lab Sample ID: LCS 480-136002/73 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.8		mg/L		102	90 - 110

Lab Sample ID: LCS 480-136002/99 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.5		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-135721/147 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			08/23/13 15:59	1

Lab Sample ID: MB 480-135721/195 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			08/23/13 16:46	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 480-135721/219 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			08/23/13 17:10	1

Lab Sample ID: MB 480-135721/51 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			08/23/13 14:25	1

Lab Sample ID: LCS 480-135721/148 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: LCS 480-135721/196 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.991		mg/L		99	90 - 110

Lab Sample ID: LCS 480-135721/220 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.991		mg/L		99	90 - 110

Lab Sample ID: LCS 480-135721/52 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.990		mg/L		99	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-135895/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135990 — **Prep Batch: 135895**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		08/26/13 07:41	08/26/13 16:56	1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 480-135895/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135990 — **Prep Batch: 135895**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.53		mg/L		101	90 - 110

Lab Sample ID: MB 480-135901/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135990 — **Prep Batch: 135901**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.167	J	0.20	0.15	mg/L		08/26/13 07:50	08/26/13 16:56	1

Lab Sample ID: LCS 480-135901/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135990 — **Prep Batch: 135901**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.54		mg/L		102	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-136178/27 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			08/27/13 16:49	1

Lab Sample ID: MB 480-136178/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			08/27/13 16:49	1

Lab Sample ID: LCS 480-136178/28 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	22.5		mg/L		90	90 - 110

Lab Sample ID: LCS 480-136178/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.0		mg/L		100	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: MB 480-136903/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			08/30/13 23:30	1

Lab Sample ID: LCS 480-136903/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	188		mg/L		94	90 - 110

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-135649/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			08/23/13 07:45	1

Lab Sample ID: LCS 480-135649/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0500	0.0470		mg/L		94	85 - 115

Lab Sample ID: 480-44452-1 MS — **Client Sample ID: GW-A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0087	J H	0.0500	0.0592		mg/L		101	85 - 115

Lab Sample ID: 480-44452-2 DU — **Client Sample ID: GW-B**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135649

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND	H	ND		mg/L		NC	15

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-135629/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135893 — **Prep Batch: 135629**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00623	J	0.010	0.0050	mg/L		08/23/13 11:26	08/26/13 09:05	1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 480-135629/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135893 — **Prep Batch: 135629**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.390		mg/L		98	90 - 110

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-135841/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			08/23/13 15:24	1

Lab Sample ID: LCS 480-135841/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	59.1		mg/L		98	90 - 110

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-135940/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136188 — **Prep Batch: 135940**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		08/26/13 08:00	08/27/13 16:28	1

Lab Sample ID: LCS 480-135940/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136188 — **Prep Batch: 135940**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0984		mg/L		98	90 - 110

Lab Sample ID: 480-44452-2 MS — **Client Sample ID: GW-B**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136188 — **Prep Batch: 135940**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.0069	J	0.100	0.102		mg/L		95	60 - 143

Lab Sample ID: 480-44452-1 DU — **Client Sample ID: GW-A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136188 — **Prep Batch: 135940**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phenolics, Total Recoverable	ND		0.00518	J	mg/L		NC	20

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 480-135638/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135638

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.0	5.0	Color Units			08/23/13 11:30	1

Lab Sample ID: LCS 480-135638/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Color	30.0	30.0		Color Units		100	90 - 110

Method: SM 2340C - Hardness, Total

Lab Sample ID: MB 480-136133/27 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND		2.0	0.53	mg/L			08/27/13 12:48	1

Lab Sample ID: LCS 480-136133/28 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness	120	132		mg/L		110	90 - 110

Lab Sample ID: 480-44452-1 MS — **Client Sample ID: GW-A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness	180		200	384		mg/L		100	74 - 130

Lab Sample ID: 480-44452-2 DU — **Client Sample ID: GW-B**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 136133

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hardness	240		256		mg/L		8	15

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

Lab Sample ID: MB 480-135950/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135950

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.0	mg/L			08/26/13 15:07	1

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

Lab Sample ID: LCS 480-135950/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135950

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	503	465		mg/L		92	85 - 115

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-135640/1 USB — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135640

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/23/13 10:08	1

Lab Sample ID: LCS 480-135640/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	213		mg/L		107	85 - 115

QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Metals

Prep Batch: 135533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	3005A	
480-44452-2	GW-B	Total/NA	Water	3005A	
480-44452-3	GW-D	Total/NA	Water	3005A	
LCS 480-135533/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-135533/1-A	Method Blank	Total/NA	Water	3005A	

Prep Batch: 135544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	7470A	
480-44452-2	GW-B	Total/NA	Water	7470A	
480-44452-3	GW-D	Total/NA	Water	7470A	
LCS 480-135544/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-135544/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 135676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	7470A	135544
480-44452-2	GW-B	Total/NA	Water	7470A	135544
480-44452-3	GW-D	Total/NA	Water	7470A	135544
LCS 480-135544/2-A	Lab Control Sample	Total/NA	Water	7470A	135544
MB 480-135544/1-A	Method Blank	Total/NA	Water	7470A	135544

Analysis Batch: 135857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	6010B	135533
480-44452-2	GW-B	Total/NA	Water	6010B	135533
480-44452-3	GW-D	Total/NA	Water	6010B	135533
LCS 480-135533/2-A	Lab Control Sample	Total/NA	Water	6010B	135533
MB 480-135533/1-A	Method Blank	Total/NA	Water	6010B	135533

Filtration Batch: 135891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-3	GW-D	Dissolved	Water	FILTRATION	
LCS 480-135891/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-135891/2-D	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 480-135891/15-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
LCSD 480-135891/15-D	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
MB 480-135891/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-135891/1-D	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 136029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-3	GW-D	Dissolved	Water	3005A	135891
LCS 480-135891/2-B	Lab Control Sample	Dissolved	Water	3005A	135891
LCSD 480-135891/15-B	Lab Control Sample Dup	Dissolved	Water	3005A	135891
MB 480-135891/1-B	Method Blank	Dissolved	Water	3005A	135891

Prep Batch: 136034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-3	GW-D	Dissolved	Water	7470A	135891
LCS 480-135891/2-D	Lab Control Sample	Dissolved	Water	7470A	135891

Metals (Continued)

Prep Batch: 136034 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 480-135891/15-D	Lab Control Sample Dup	Dissolved	Water	7470A	135891
MB 480-135891/1-D	Method Blank	Dissolved	Water	7470A	135891

Analysis Batch: 136156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-3	GW-D	Dissolved	Water	7470A	136034
LCS 480-135891/2-D	Lab Control Sample	Dissolved	Water	7470A	136034
LCSD 480-135891/15-D	Lab Control Sample Dup	Dissolved	Water	7470A	136034
MB 480-135891/1-D	Method Blank	Dissolved	Water	7470A	136034

Analysis Batch: 136502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-3	GW-D	Dissolved	Water	6010B	136029
LCS 480-135891/2-B	Lab Control Sample	Dissolved	Water	6010B	136029
LCSD 480-135891/15-B	Lab Control Sample Dup	Dissolved	Water	6010B	136029
MB 480-135891/1-B	Method Blank	Dissolved	Water	6010B	136029

Filtration Batch: 136834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-3	GW-D	Dissolved	Water	FILTRATION	
LCS 480-136834/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 480-136834/3-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
MB 480-136834/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 136979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-3	GW-D	Dissolved	Water	3005A	136834
LCS 480-136834/2-B	Lab Control Sample	Dissolved	Water	3005A	136834
LCSD 480-136834/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	136834
MB 480-136834/1-B	Method Blank	Dissolved	Water	3005A	136834

Analysis Batch: 137111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-3	GW-D	Dissolved	Water	6010B	136979
LCS 480-136834/2-B	Lab Control Sample	Dissolved	Water	6010B	136979
LCSD 480-136834/3-B	Lab Control Sample Dup	Dissolved	Water	6010B	136979
MB 480-136834/1-B	Method Blank	Dissolved	Water	6010B	136979

Analysis Batch: 137177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-3	GW-D	Dissolved	Water	6010B	136979

General Chemistry

Analysis Batch: 135512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	180.1	
480-44452-2	GW-B	Total/NA	Water	180.1	
480-44452-3	GW-D	Total/NA	Water	180.1	
LCS 480-135512/4	Lab Control Sample	Total/NA	Water	180.1	

General Chemistry (Continued)

Analysis Batch: 135512 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-135512/3	Method Blank	Total/NA	Water	180.1	

Prep Batch: 135629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	9012A	
480-44452-2	GW-B	Total/NA	Water	9012A	
480-44452-3	GW-D	Total/NA	Water	9012A	
LCS 480-135629/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 480-135629/1-A	Method Blank	Total/NA	Water	9012A	

Analysis Batch: 135638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	SM 2120B	
480-44452-2	GW-B	Total/NA	Water	SM 2120B	
480-44452-3	GW-D	Total/NA	Water	SM 2120B	
LCS 480-135638/4	Lab Control Sample	Total/NA	Water	SM 2120B	
MB 480-135638/3	Method Blank	Total/NA	Water	SM 2120B	

Analysis Batch: 135640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	SM 5210B	
480-44452-2	GW-B	Total/NA	Water	SM 5210B	
480-44452-3	GW-D	Total/NA	Water	SM 5210B	
LCS 480-135640/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 480-135640/1 USB	Method Blank	Total/NA	Water	SM 5210B	

Analysis Batch: 135649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	7196A	
480-44452-1 MS	GW-A	Total/NA	Water	7196A	
480-44452-2	GW-B	Total/NA	Water	7196A	
480-44452-2 DU	GW-B	Total/NA	Water	7196A	
480-44452-3	GW-D	Total/NA	Water	7196A	
LCS 480-135649/4	Lab Control Sample	Total/NA	Water	7196A	
MB 480-135649/3	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 135661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	353.2	
480-44452-2	GW-B	Total/NA	Water	353.2	
480-44452-3	GW-D	Total/NA	Water	353.2	

Analysis Batch: 135669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	300.0	
480-44452-2	GW-B	Total/NA	Water	300.0	
480-44452-3	GW-D	Total/NA	Water	300.0	
LCS 480-135669/51	Lab Control Sample	Total/NA	Water	300.0	
MB 480-135669/52	Method Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 135721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	350.1	
480-44452-2	GW-B	Total/NA	Water	350.1	
480-44452-3	GW-D	Total/NA	Water	350.1	
LCS 480-135721/148	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-135721/196	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-135721/220	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-135721/52	Lab Control Sample	Total/NA	Water	350.1	
MB 480-135721/147	Method Blank	Total/NA	Water	350.1	
MB 480-135721/195	Method Blank	Total/NA	Water	350.1	
MB 480-135721/219	Method Blank	Total/NA	Water	350.1	
MB 480-135721/51	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 135841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	9060	
480-44452-2	GW-B	Total/NA	Water	9060	
480-44452-3	GW-D	Total/NA	Water	9060	
LCS 480-135841/4	Lab Control Sample	Total/NA	Water	9060	
MB 480-135841/3	Method Blank	Total/NA	Water	9060	

Analysis Batch: 135893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	9012A	135629
480-44452-2	GW-B	Total/NA	Water	9012A	135629
480-44452-3	GW-D	Total/NA	Water	9012A	135629
LCS 480-135629/2-A	Lab Control Sample	Total/NA	Water	9012A	135629
MB 480-135629/1-A	Method Blank	Total/NA	Water	9012A	135629

Prep Batch: 135895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	351.2	
LCS 480-135895/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-135895/1-A	Method Blank	Total/NA	Water	351.2	

Prep Batch: 135901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-2	GW-B	Total/NA	Water	351.2	
480-44452-3	GW-D	Total/NA	Water	351.2	
LCS 480-135901/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-135901/1-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 135910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	300.0	
480-44452-2	GW-B	Total/NA	Water	300.0	
480-44452-3	GW-D	Total/NA	Water	300.0	
LCS 480-135910/27	Lab Control Sample	Total/NA	Water	300.0	
MB 480-135910/28	Method Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Prep Batch: 135940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	Distill/Phenol	
480-44452-1 DU	GW-A	Total/NA	Water	Distill/Phenol	
480-44452-2	GW-B	Total/NA	Water	Distill/Phenol	
480-44452-2 MS	GW-B	Total/NA	Water	Distill/Phenol	
480-44452-3	GW-D	Total/NA	Water	Distill/Phenol	
LCS 480-135940/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-135940/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

Analysis Batch: 135950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	SM 2540C	
480-44452-2	GW-B	Total/NA	Water	SM 2540C	
480-44452-3	GW-D	Total/NA	Water	SM 2540C	
LCS 480-135950/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 480-135950/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 135990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	351.2	135895
480-44452-2	GW-B	Total/NA	Water	351.2	135901
480-44452-3	GW-D	Total/NA	Water	351.2	135901
LCS 480-135895/2-A	Lab Control Sample	Total/NA	Water	351.2	135895
LCS 480-135901/2-A	Lab Control Sample	Total/NA	Water	351.2	135901
MB 480-135895/1-A	Method Blank	Total/NA	Water	351.2	135895
MB 480-135901/1-A	Method Blank	Total/NA	Water	351.2	135901

Analysis Batch: 136002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	310.2	
480-44452-2	GW-B	Total/NA	Water	310.2	
480-44452-3	GW-D	Total/NA	Water	310.2	
LCS 480-136002/125	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-136002/73	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-136002/99	Lab Control Sample	Total/NA	Water	310.2	
MB 480-136002/100	Method Blank	Total/NA	Water	310.2	
MB 480-136002/126	Method Blank	Total/NA	Water	310.2	
MB 480-136002/74	Method Blank	Total/NA	Water	310.2	

Analysis Batch: 136133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	SM 2340C	
480-44452-1 MS	GW-A	Total/NA	Water	SM 2340C	
480-44452-2	GW-B	Total/NA	Water	SM 2340C	
480-44452-2 DU	GW-B	Total/NA	Water	SM 2340C	
480-44452-3	GW-D	Total/NA	Water	SM 2340C	
LCS 480-136133/28	Lab Control Sample	Total/NA	Water	SM 2340C	
MB 480-136133/27	Method Blank	Total/NA	Water	SM 2340C	

Analysis Batch: 136178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 136178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-3	GW-D	Total/NA	Water	410.4	
LCS 480-136178/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-136178/4	Lab Control Sample	Total/NA	Water	410.4	
MB 480-136178/27	Method Blank	Total/NA	Water	410.4	
MB 480-136178/3	Method Blank	Total/NA	Water	410.4	

Analysis Batch: 136188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-1	GW-A	Total/NA	Water	9066	135940
480-44452-1 DU	GW-A	Total/NA	Water	9066	135940
480-44452-2	GW-B	Total/NA	Water	9066	135940
480-44452-2 MS	GW-B	Total/NA	Water	9066	135940
480-44452-3	GW-D	Total/NA	Water	9066	135940
LCS 480-135940/2-A	Lab Control Sample	Total/NA	Water	9066	135940
MB 480-135940/1-A	Method Blank	Total/NA	Water	9066	135940

Analysis Batch: 136903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44452-2	GW-B	Total/NA	Water	410.4	
LCS 480-136903/4	Lab Control Sample	Total/NA	Water	410.4	
MB 480-136903/3	Method Blank	Total/NA	Water	410.4	

Lab Chronicle

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Client Sample ID: GW-A

Lab Sample ID: 480-44452-1

Date Collected: 08/21/13 16:40

Matrix: Water

Date Received: 08/23/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			135544	08/23/13 08:35	JRK	TAL BUF
Total/NA	Analysis	7470A		1	135676	08/23/13 13:35	JRK	TAL BUF
Total/NA	Prep	3005A			135533	08/23/13 08:20	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	135857	08/23/13 19:17	LMH	TAL BUF
Total/NA	Analysis	180.1		1	135512	08/23/13 06:00	LMK	TAL BUF
Total/NA	Analysis	SM 2120B		1	135638	08/23/13 11:30	LAW	TAL BUF
Total/NA	Analysis	SM 5210B		1	135640	08/23/13 10:08	MDL	TAL BUF
Total/NA	Analysis	7196A		1	135649	08/23/13 07:45	MDL	TAL BUF
Total/NA	Analysis	353.2		1	135661	08/23/13 10:30	RMB	TAL BUF
Total/NA	Analysis	300.0		1	135669	08/24/13 02:26	KRC	TAL BUF
Total/NA	Analysis	350.1		1	135721	08/23/13 16:01	KMF	TAL BUF
Total/NA	Analysis	9060		1	135841	08/23/13 16:46	KRC	TAL BUF
Total/NA	Prep	9012A			135629	08/23/13 11:26	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	135893	08/26/13 09:20	KWJ	TAL BUF
Total/NA	Analysis	300.0		1	135910	08/26/13 18:06	KRC	TAL BUF
Total/NA	Analysis	SM 2540C		1	135950	08/26/13 15:11	KS	TAL BUF
Total/NA	Prep	351.2			135895	08/26/13 07:41	LAW	TAL BUF
Total/NA	Analysis	351.2		1	135990	08/26/13 18:41	NCH	TAL BUF
Total/NA	Analysis	310.2		5	136002	08/26/13 21:27	JME	TAL BUF
Total/NA	Analysis	SM 2340C		1	136133	08/27/13 12:49	KWJ	TAL BUF
Total/NA	Analysis	410.4		1	136178	08/27/13 16:49	JMB	TAL BUF
Total/NA	Prep	Distill/Phenol			135940	08/26/13 08:00	CLT	TAL BUF
Total/NA	Analysis	9066		1	136188	08/27/13 17:35	NCH	TAL BUF

Client Sample ID: GW-B

Lab Sample ID: 480-44452-2

Date Collected: 08/21/13 16:25

Matrix: Water

Date Received: 08/23/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			135544	08/23/13 08:35	JRK	TAL BUF
Total/NA	Analysis	7470A		1	135676	08/23/13 13:37	JRK	TAL BUF
Total/NA	Prep	3005A			135533	08/23/13 08:20	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	135857	08/23/13 19:19	LMH	TAL BUF
Total/NA	Analysis	180.1		1	135512	08/23/13 06:00	LMK	TAL BUF
Total/NA	Analysis	SM 2120B		10	135638	08/23/13 11:30	LAW	TAL BUF
Total/NA	Analysis	SM 5210B		1	135640	08/23/13 10:08	MDL	TAL BUF
Total/NA	Analysis	7196A		1	135649	08/23/13 07:45	MDL	TAL BUF
Total/NA	Analysis	353.2		1	135661	08/23/13 10:31	RMB	TAL BUF
Total/NA	Analysis	300.0		1	135669	08/24/13 02:36	KRC	TAL BUF
Total/NA	Analysis	350.1		1	135721	08/23/13 16:02	KMF	TAL BUF
Total/NA	Analysis	9060		1	135841	08/23/13 17:14	KRC	TAL BUF

Lab Chronicle

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Client Sample ID: GW-B

Lab Sample ID: 480-44452-2

Date Collected: 08/21/13 16:25
Matrix: Water
Date Received: 08/23/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012A			135629	08/23/13 11:26	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	135893	08/26/13 09:21	KWJ	TAL BUF
Total/NA	Analysis	300.0		1	135910	08/26/13 18:17	KRC	TAL BUF
Total/NA	Analysis	SM 2540C		1	135950	08/26/13 15:12	KS	TAL BUF
Total/NA	Prep	351.2			135901	08/26/13 07:50	LAW	TAL BUF
Total/NA	Analysis	351.2		2	135990	08/26/13 20:17	NCH	TAL BUF
Total/NA	Analysis	310.2		5	136002	08/26/13 21:27	JME	TAL BUF
Total/NA	Analysis	SM 2340C		1	136133	08/27/13 12:49	KWJ	TAL BUF
Total/NA	Prep	Distill/Phenol			135940	08/26/13 08:00	CLT	TAL BUF
Total/NA	Analysis	9066		1	136188	08/27/13 17:44	NCH	TAL BUF
Total/NA	Analysis	410.4		1	136903	08/30/13 23:30	JMB	TAL BUF

Client Sample ID: GW-D

Lab Sample ID: 480-44452-3

Date Collected: 08/21/13 16:00
Matrix: Water
Date Received: 08/23/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			135544	08/23/13 08:35	JRK	TAL BUF
Total/NA	Analysis	7470A		1	135676	08/23/13 13:39	JRK	TAL BUF
Total/NA	Prep	3005A			135533	08/23/13 08:20	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	135857	08/23/13 19:21	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			135891	08/26/13 11:00	NMD2	TAL BUF
Dissolved	Prep	7470A			136034	08/27/13 08:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	136156	08/27/13 13:07	JRK	TAL BUF
Dissolved	Filtration	FILTRATION			135891	08/26/13 11:00	NMD2	TAL BUF
Dissolved	Prep	3005A			136029	08/27/13 08:20	NMD2	TAL BUF
Dissolved	Analysis	6010B		1	136502	08/28/13 17:10	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			136834	08/30/13 15:52	NMD2	TAL BUF
Dissolved	Prep	3005A			136979	09/03/13 09:40	NMD2	TAL BUF
Dissolved	Analysis	6010B		1	137111	09/03/13 16:06	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			136834	08/30/13 15:52	NMD2	TAL BUF
Dissolved	Prep	3005A			136979	09/03/13 09:40	NMD2	TAL BUF
Dissolved	Analysis	6010B		1	137177	09/03/13 18:17	AMH	TAL BUF
Total/NA	Analysis	180.1		25	135512	08/23/13 06:00	LMK	TAL BUF
Total/NA	Analysis	SM 2120B		10	135638	08/23/13 11:30	LAW	TAL BUF
Total/NA	Analysis	SM 5210B		1	135640	08/23/13 10:08	MDL	TAL BUF
Total/NA	Analysis	7196A		1	135649	08/23/13 07:45	MDL	TAL BUF
Total/NA	Analysis	353.2		1	135661	08/23/13 10:32	RMB	TAL BUF
Total/NA	Analysis	300.0		1	135669	08/24/13 02:46	KRC	TAL BUF
Total/NA	Analysis	350.1		5	135721	08/23/13 17:00	KMF	TAL BUF
Total/NA	Analysis	9060		1	135841	08/23/13 17:41	KRC	TAL BUF
Total/NA	Prep	9012A			135629	08/23/13 11:26	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	135893	08/26/13 09:22	KWJ	TAL BUF

Lab Chronicle

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Client Sample ID: GW-D

Lab Sample ID: 480-44452-3

Date Collected: 08/21/13 16:00

Matrix: Water

Date Received: 08/23/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	135910	08/26/13 18:27	KRC	TAL BUF
Total/NA	Analysis	SM 2540C		1	135950	08/26/13 15:13	KS	TAL BUF
Total/NA	Prep	351.2			135901	08/26/13 07:50	LAW	TAL BUF
Total/NA	Analysis	351.2		5	135990	08/26/13 20:53	NCH	TAL BUF
Total/NA	Analysis	310.2		10	136002	08/26/13 22:04	JME	TAL BUF
Total/NA	Analysis	SM 2340C		1	136133	08/27/13 12:49	KWJ	TAL BUF
Total/NA	Analysis	410.4		1	136178	08/27/13 16:49	JMB	TAL BUF
Total/NA	Prep	Distill/Phenol			135940	08/26/13 08:00	CLT	TAL BUF
Total/NA	Analysis	9066		1	136188	08/27/13 17:44	NCH	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: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	10-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-09 *
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-09 *
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-01-09 *
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-08 *
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-09 *
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13 *
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	09-30-13

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: Sterling Environmental Engineering PC
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
180.1	Turbidity, Nephelometric	MCAWW	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
9012A	Cyanide, Total and/or Amenable	SW846	TAL BUF
9060	Organic Carbon, Total (TOC)	SW846	TAL BUF
9066	Phenolics, Total Recoverable	SW846	TAL BUF
SM 2120B	Color, Colorimetric	SM	TAL BUF
SM 2340C	Hardness, Total	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF

Protocol References:

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",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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: Orange County Landfill

TestAmerica Job ID: 480-44452-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-44452-1	GW-A	Water	08/21/13 16:40	08/23/13 02:00
480-44452-2	GW-B	Water	08/21/13 16:25	08/23/13 02:00
480-44452-3	GW-D	Water	08/21/13 16:00	08/23/13 02:00

TestAmerica Albany
25 Kraft Road
Albany, NY 12205

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Shaffer, Lisa E	Carrier Tracking No(s):	COC No: 480-38789-10237.1
Client Contact: Nathan Shaffer	Phone: 518 456 4110	E-Mail: lisa.shaffer@testamericainc.com		Page: Page 1 of 1
Company: Sterling Environmental Engineering PC				Job #: 2010-15
Address: 24 Wade Road	Due Date Requested:			
City: Latham	TAT Requested (days): Standard 10 days			
State, Zip: NY, 12110				
Phone: 518 456 4110	PO #: Purchase Order not required			
Email: nathan.shaffer@sterlingenvironmental.com	WO #:			
Project Name: Orange County Landfill	Project #: 48005786			
Site: New York	SSOW#:			

Analysis Requested

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)	300.0_28D - (MOD) Chloride, Sulfate,Bromide	350.1, 351.2, 410.4	6010B, 7470A	2340C - Hardness	9066 - Phenolics, Total Recoverable	9060 - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	9012A - Cyanide, Total	180.1, 2120B, 353.2, 353.2_Nitrite, Nitrate_Calc	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	* Filtered Metals (1L Bottle)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	D	S	A	N	N	B	N	N	N			
Well A	8/21/13	4:40	G	Water			1					2	1	1	1	2	1				
Well B	8/21/13	4:25	G	Water			1	1	1	1	1	2	1	1	1	2	1	1			
~~Well C~~				~~Water~~																	
Well D	8/21/13	4:00	G	Water			1	1	1	1	1	2	1	1	1	2	1	1	0		* if insufficient quantity of filtered sample please call Nathan Shaffer @ 518.456.4910 for parameters or analysis to be excluded.
				Water																	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

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
[signature]	8/22/2013 12:30	[illegible]	[signature]	8/22/13 12:50	TA
[signature]	8/22/13		[signature]	8.23.13 0200	TAL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.7 #1

Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-44452-1

Login Number: 44452

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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	STERLING
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	