APPENDIX I

JUNE 12, 2014 ANALYTICAL RESULTS

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: 480-61861-1
Client Project/Site: Orange County Landfill
Sampling Event: Groundwater Baseline

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

Attn: Stephen Burton

Authorized for release by:
6/27/2014 2:51:39 PM

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LINKS

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

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

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Definitions/Glossary

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

TestAmerica Job ID: 480-61861-1

Qualifiers

GC/MS VOA

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.

Metals

Qualifier	Qualifier Description
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-61861-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-61861-1

Comments
No additional comments.

Receipt
The samples were received on 6/13/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0° C, 3.2° C and 3.5° C.

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

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

Metals
Method(s) 6010C: The method blank for batch 480-187751 contained total boron 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-1 (480-61861-7), GW-2 (480-61861-8), GW-3 (480-61861-6), GW-A (480-61861-2), GW-B (480-61861-3), SW-01 (480-61861-5), SW-02 (480-61861-4) was not performed.

Method(s) 6010C: The method blank for batch 480-187896 contained dissolved zinc 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-1 (480-61861-7), GW-2 (480-61861-8), GW-3 (480-61861-6), GW-A (480-61861-2), GW-B (480-61861-3), SW-01 (480-61861-5), SW-02 (480-61861-4) was not performed.

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

General Chemistry
Method(s) SM 2120B: The sample was filtered prior to analysis, therefore the analytical result must be reported as true color. GW-2 (480-61861-8), GW-3 (480-61861-6), GW-B (480-61861-3)

Method(s) 353.2: The method blank for batch 187689 contained nitrite 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.SW-02 (480-61861-4)

Method(s) SM 5210B: 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 in batch 187695 are reported. (USB 480-187695/1)

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

Detection Summary

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-A — Lab Sample ID: 480-61861-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.37		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.021		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.023	B	0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	49		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.53		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	8.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.063		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	1.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	24		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0029	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.14		0.0020	0.00070	mg/L	1		6010C	Dissolved
Boron	0.022		0.020	0.0040	mg/L	1		6010C	Dissolved
Calcium	46		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0031	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Copper	0.0017	J	0.010	0.0016	mg/L	1		6010C	Dissolved
Iron	0.099		0.050	0.019	mg/L	1		6010C	Dissolved
Magnesium	8.4		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.038		0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0013	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	1.6		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	25		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0042	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Chloride	44		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	17		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	130		50	20	mg/L	5		310.2	Total/NA
Ammonia	0.016	J	0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.41		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate as N	0.45		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	24		10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	6.9		1.0	0.43	mg/L	1		9060A	Total/NA
Hardness	160		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	280		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Turbidity	12		1.0	1.0	NTU	1		180.1	Total/NA
Color	60		5.0	5.0	Color Units	1		SM 2120B	Total/NA

Client Sample ID: GW-B — Lab Sample ID: 480-61861-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	6.3		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.0058	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.074		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.00045	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Boron	0.027	B	0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	76		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0078		0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.012		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	8.0		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0070	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	16		0.20	0.043	mg/L	1		6010C	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: 480-61861-1

Client Sample ID: GW-B (Continued)

Lab Sample ID: 480-61861-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.0		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.018		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	4.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	3.2		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.028		0.010	0.0015	mg/L	1		6010C	Total/NA
Aluminum	0.14	J	0.20	0.060	mg/L	1		6010C	Dissolved
Barium	0.27		0.0020	0.00070	mg/L	1		6010C	Dissolved
Boron	0.020		0.020	0.0040	mg/L	1		6010C	Dissolved
Calcium	72		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0038	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Cobalt	0.0014	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Copper	0.0054	J	0.010	0.0016	mg/L	1		6010C	Dissolved
Iron	0.22		0.050	0.019	mg/L	1		6010C	Dissolved
Magnesium	15		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.44		0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.010		0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	2.2		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	4.1		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0055	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Chloride	0.82		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	23		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	260		100	40	mg/L	10		310.2	Total/NA
Ammonia	0.14		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	2.7		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate as N	0.31		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	110		10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	46		1.0	0.43	mg/L	1		9060A	Total/NA
Hardness	250		10	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	420		10	4.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	2.2	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	160		1.0	1.0	NTU	1		180.1	Total/NA
Color	140		10	10	Color Units	2		SM 2120B	Total/NA

Client Sample ID: SW-02

Lab Sample ID: 480-61861-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.55		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.024		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.023	B	0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	44		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0017	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.77		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	15		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.11		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	1.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	32		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0055	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.021		0.0020	0.00070	mg/L	1		6010C	Dissolved
Boron	0.021		0.020	0.0040	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-02 (Continued) — Lab Sample ID: 480-61861-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	42		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0019	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Copper	0.0016	J	0.010	0.0016	mg/L	1		6010C	Dissolved
Iron	0.026	J	0.050	0.019	mg/L	1		6010C	Dissolved
Magnesium	15		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.0062		0.0030	0.00040	mg/L	1		6010C	Dissolved
Potassium	1.5		0.50	0.10	mg/L	1		6010C	Dissolved
Selenium	0.0090	J	0.025	0.0087	mg/L	1		6010C	Dissolved
Sodium	32		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0028	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Chloride	61		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	14		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	140		50	20	mg/L	5		310.2	Total/NA
Ammonia	0.053		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.44		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate as N	0.93		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	9.0	J	10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	4.4		1.0	0.43	mg/L	1		9060A	Total/NA
Hardness	180		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	310		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Turbidity	17		1.0	1.0	NTU	1		180.1	Total/NA
Color	40		5.0	5.0	Color Units	1		SM 2120B	Total/NA

Client Sample ID: SW-01 — Lab Sample ID: 480-61861-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.57		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.024		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.022	B	0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	43		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.81		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	15		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.11		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0015	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	1.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	32		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0060	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.022		0.0020	0.00070	mg/L	1		6010C	Dissolved
Boron	0.022		0.020	0.0040	mg/L	1		6010C	Dissolved
Calcium	42		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0015	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Iron	0.095		0.050	0.019	mg/L	1		6010C	Dissolved
Magnesium	16		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.0059		0.0030	0.00040	mg/L	1		6010C	Dissolved
Potassium	1.6		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	33		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0047	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Chloride	61		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	14		2.0	0.35	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-01 (Continued) — Lab Sample ID: 480-61861-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity, Total	130		50	20	mg/L	5		310.2	Total/NA
Ammonia	0.053		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.41		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate as N	0.91		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	10		10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	4.4		1.0	0.43	mg/L	1		9060A	Total/NA
Hardness	180		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	310		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Turbidity	16		1.0	1.0	NTU	1		180.1	Total/NA
Color	35		5.0	5.0	Color Units	1		SM 2120B	Total/NA

Client Sample ID: GW-3 — Lab Sample ID: 480-61861-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.21		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.029		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.49		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.17	B	0.020	0.0040	mg/L	1		6010C	Total/NA
Calcium	150		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	13		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	48		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.4		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0073	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	8.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	45		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0054	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Arsenic	0.010	J	0.015	0.0056	mg/L	1		6010C	Dissolved
Barium	0.43		0.0020	0.00070	mg/L	1		6010C	Dissolved
Boron	0.17		0.020	0.0040	mg/L	1		6010C	Dissolved
Calcium	140		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0018	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Cobalt	0.0024	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Magnesium	48		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	1.2		0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0064	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	7.9		0.50	0.10	mg/L	1		6010C	Dissolved
Selenium	0.0091	J	0.025	0.0087	mg/L	1		6010C	Dissolved
Sodium	45		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0041	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Chloride	54		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	67		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	630		100	40	mg/L	10		310.2	Total/NA
Ammonia	6.3		0.10	0.045	mg/L	5		350.1	Total/NA
Total Kjeldahl Nitrogen	6.8		0.40	0.30	mg/L	2		351.2	Total/NA
Chemical Oxygen Demand	21		10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	5.5		1.0	0.43	mg/L	1		9060A	Total/NA
Hardness	600		20	5.3	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	780		10	4.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	14	b	2.0	2.0	mg/L	1		SM 5210B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-3 (Continued) — Lab Sample ID: 480-61861-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	150		1.0	1.0	NTU	1		180.1	Total/NA
Color	5.0		5.0	5.0	Color Units	1		SM 2120B	Total/NA

Client Sample ID: GW-1 — Lab Sample ID: 480-61861-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.60		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.12		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	1.2		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.27	B	0.020	0.0040	mg/L	1		6010C	Total/NA
Cadmium	0.00094	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	92		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	11		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	57		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.28		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.013		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	19		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	65		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.012		0.010	0.0015	mg/L	1		6010C	Total/NA
Arsenic	0.037		0.015	0.0056	mg/L	1		6010C	Dissolved
Barium	1.1		0.0020	0.00070	mg/L	1		6010C	Dissolved
Boron	0.28		0.020	0.0040	mg/L	1		6010C	Dissolved
Calcium	89		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0019	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Cobalt	0.00063	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Iron	0.019	J	0.050	0.019	mg/L	1		6010C	Dissolved
Lead	0.0038	J	0.010	0.0030	mg/L	1		6010C	Dissolved
Magnesium	60		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.23		0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.012		0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	19		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	65		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0057	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Chloride	73		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	4.7		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	560		100	40	mg/L	10		310.2	Total/NA
Ammonia	18		0.20	0.090	mg/L	10		350.1	Total/NA
Total Kjeldahl Nitrogen	16		2.0	1.5	mg/L	10		351.2	Total/NA
Nitrate as N	0.076		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	31		10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	6.0		1.0	0.43	mg/L	1		9060A	Total/NA
Hardness	490		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	690		10	4.0	mg/L	1		SM 2540C	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	320		1.0	1.0	NTU	1		180.1	Total/NA
Color	25		5.0	5.0	Color Units	1		SM 2120B	Total/NA

Client Sample ID: GW-2 — Lab Sample ID: 480-61861-8

This Detection Summary does not include radiochemical test results.

Detection Summary

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-2 (Continued)

Lab Sample ID: 480-61861-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.4		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.086		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.38		0.0020	0.00070	mg/L	1		6010C	Total/NA
Boron	0.17	B	0.020	0.0040	mg/L	1		6010C	Total/NA
Cadmium	0.00062	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	120		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0020	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0027	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	5.3		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0042	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	44		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.8		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0091	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	12		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	45		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.020		0.010	0.0015	mg/L	1		6010C	Total/NA
Arsenic	0.049		0.015	0.0056	mg/L	1		6010C	Dissolved
Barium	0.40		0.0020	0.00070	mg/L	1		6010C	Dissolved
Boron	0.18		0.020	0.0040	mg/L	1		6010C	Dissolved
Calcium	120		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0020	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Cobalt	0.0019	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Magnesium	45		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	1.6		0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0071	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	12		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	47		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0088	J B	0.010	0.0015	mg/L	1		6010C	Dissolved
Chloride	58		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	11		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	610		100	40	mg/L	10		310.2	Total/NA
Ammonia	8.8		0.10	0.045	mg/L	5		350.1	Total/NA
Total Kjeldahl Nitrogen	8.6		1.0	0.75	mg/L	5		351.2	Total/NA
Nitrate as N	0.57		0.050	0.020	mg/L	1		353.2	Total/NA
Cyanide, Total	0.0053	J	0.010	0.0050	mg/L	1		9012B	Total/NA
Total Organic Carbon	5.9		1.0	0.43	mg/L	1		9060A	Total/NA
Hardness	500		10	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	660		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Turbidity	120		1.0	1.0	NTU	1		180.1	Total/NA
Color	15		5.0	5.0	Color Units	1		SM 2120B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-61861-9

No Detections.

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: 480-61861-1

Client Sample ID: GW-A

Date Collected: 06/12/14 14:00
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-2

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			06/18/14 05:07	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/18/14 05:07	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/18/14 05:07	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/18/14 05:07	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/18/14 05:07	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/18/14 05:07	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/18/14 05:07	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/18/14 05:07	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/18/14 05:07	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/18/14 05:07	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/18/14 05:07	1
Benzene	ND		5.0	0.60	ug/L			06/18/14 05:07	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/18/14 05:07	1
Bromoform	ND		5.0	0.47	ug/L			06/18/14 05:07	1
Bromomethane	ND		5.0	1.2	ug/L			06/18/14 05:07	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/18/14 05:07	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/18/14 05:07	1
Chloroethane	ND		5.0	0.87	ug/L			06/18/14 05:07	1
Chloroform	ND		5.0	0.54	ug/L			06/18/14 05:07	1
Chloromethane	ND		5.0	0.64	ug/L			06/18/14 05:07	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			06/18/14 05:07	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/18/14 05:07	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/18/14 05:07	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			06/18/14 05:07	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/18/14 05:07	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/18/14 05:07	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			06/18/14 05:07	1
o-Xylene	ND		5.0	0.43	ug/L			06/18/14 05:07	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/18/14 05:07	1
Toluene	ND		5.0	0.45	ug/L			06/18/14 05:07	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			06/18/14 05:07	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/18/14 05:07	1
Trichloroethene	ND		5.0	0.60	ug/L			06/18/14 05:07	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/18/14 05:07	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/18/14 05:07	1
Xylenes, Total	ND		10	1.1	ug/L			06/18/14 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*06/18/14 05:07*	*1*
4-Bromofluorobenzene (Surr)	*95*		*69 - 121*		*06/18/14 05:07*	*1*
Toluene-d8 (Surr)	*97*		*70 - 123*		*06/18/14 05:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.37**		0.20	0.060	mg/L		06/16/14 08:00	06/18/14 22:05	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 08:00	06/18/14 22:05	1
Arsenic	ND		0.015	0.0056	mg/L		06/16/14 08:00	06/18/14 22:05	1
Barium	**0.021**		0.0020	0.00070	mg/L		06/16/14 08:00	06/18/14 22:05	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 08:00	06/18/14 22:05	1
Boron	**0.023**	**B**	0.020	0.0040	mg/L		06/16/14 08:00	06/18/14 22:05	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-A

Date Collected: 06/12/14 14:00
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 08:00	06/18/14 22:05	1
Calcium	**49**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:05	1
Chromium	ND		0.0040	0.0010	mg/L		06/16/14 08:00	06/18/14 22:05	1
Copper	ND		0.010	0.0016	mg/L		06/16/14 08:00	06/18/14 22:05	1
Iron	**0.53**		0.050	0.019	mg/L		06/16/14 08:00	06/18/14 22:05	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 08:00	06/18/14 22:05	1
Magnesium	**8.8**		0.20	0.043	mg/L		06/16/14 08:00	06/18/14 22:05	1
Manganese	**0.063**		0.0030	0.00040	mg/L		06/16/14 08:00	06/18/14 22:05	1
Nickel	ND		0.010	0.0013	mg/L		06/16/14 08:00	06/18/14 22:05	1
Potassium	**1.8**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:05	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 08:00	06/18/14 22:05	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 08:00	06/18/14 22:05	1
Sodium	**24**		1.0	0.32	mg/L		06/16/14 08:00	06/18/14 22:05	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 08:00	06/18/14 22:05	1
Zinc	**0.0029**	**J**	0.010	0.0015	mg/L		06/16/14 08:00	06/18/14 22:05	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/16/14 12:05	06/20/14 14:31	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 12:05	06/20/14 14:31	1
Arsenic	ND		0.015	0.0056	mg/L		06/16/14 12:05	06/20/14 14:31	1
Barium	**0.14**		0.0020	0.00070	mg/L		06/16/14 12:05	06/20/14 14:31	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 12:05	06/20/14 14:31	1
Boron	**0.022**		0.020	0.0040	mg/L		06/16/14 12:05	06/20/14 14:31	1
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 12:05	06/20/14 14:31	1
Calcium	**46**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:31	1
Chromium	**0.0031**	**J**	0.0040	0.0010	mg/L		06/16/14 12:05	06/20/14 14:31	1
Cobalt	ND		0.0040	0.00063	mg/L		06/16/14 12:05	06/20/14 14:31	1
Copper	**0.0017**	**J**	0.010	0.0016	mg/L		06/16/14 12:05	06/20/14 14:31	1
Iron	**0.099**		0.050	0.019	mg/L		06/16/14 12:05	06/20/14 14:31	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 12:05	06/20/14 14:31	1
Magnesium	**8.4**		0.20	0.043	mg/L		06/16/14 12:05	06/20/14 14:31	1
Manganese	**0.038**		0.0030	0.00040	mg/L		06/16/14 12:05	06/20/14 14:31	1
Nickel	**0.0013**	**J**	0.010	0.0013	mg/L		06/16/14 12:05	06/20/14 14:31	1
Potassium	**1.6**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:31	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 12:05	06/20/14 14:31	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 12:05	06/20/14 14:31	1
Sodium	**25**		1.0	0.32	mg/L		06/16/14 12:05	06/20/14 14:31	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 12:05	06/20/14 14:31	1
Vanadium	ND		0.0050	0.0015	mg/L		06/16/14 12:05	06/20/14 14:31	1
Zinc	**0.0042**	**J B**	0.010	0.0015	mg/L		06/16/14 12:05	06/20/14 14:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/16/14 14:30	06/17/14 10:03	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		06/17/14 10:15	06/17/14 14:02	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-A

Date Collected: 06/12/14 14:00
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44**		0.50	0.28	mg/L			06/20/14 11:22	1
Sulfate	**17**		2.0	0.35	mg/L			06/20/14 11:22	1
Alkalinity, Total	**130**		50	20	mg/L			06/20/14 12:52	5
Ammonia	**0.016**	**J**	0.020	0.0090	mg/L			06/17/14 12:47	1
Total Kjeldahl Nitrogen	**0.41**		0.20	0.15	mg/L		06/18/14 19:32	06/19/14 10:12	1
Nitrate as N	**0.45**		0.050	0.020	mg/L			06/13/14 16:24	1
Chemical Oxygen Demand	**24**		10	5.0	mg/L			06/16/14 17:30	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			06/13/14 09:59	1
Cyanide, Total	ND		0.010	0.0050	mg/L		06/19/14 17:30	06/20/14 10:32	1
Total Organic Carbon	**6.9**		1.0	0.43	mg/L			06/17/14 13:22	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/23/14 17:30	06/24/14 11:20	1
Hardness	**160**		4.0	1.1	mg/L			06/24/14 10:32	1
Total Dissolved Solids	**280**		10	4.0	mg/L			06/16/14 23:16	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			06/13/14 17:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**12**		1.0	1.0	NTU			06/13/14 08:37	1
Color	**60**		5.0	5.0	Color Units			06/13/14 11:17	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-B

Date Collected: 06/12/14 14:45
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-3
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			06/18/14 05:31	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/18/14 05:31	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/18/14 05:31	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/18/14 05:31	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/18/14 05:31	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/18/14 05:31	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/18/14 05:31	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/18/14 05:31	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/18/14 05:31	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/18/14 05:31	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/18/14 05:31	1
Benzene	ND		5.0	0.60	ug/L			06/18/14 05:31	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/18/14 05:31	1
Bromoform	ND		5.0	0.47	ug/L			06/18/14 05:31	1
Bromomethane	ND		5.0	1.2	ug/L			06/18/14 05:31	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/18/14 05:31	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/18/14 05:31	1
Chloroethane	ND		5.0	0.87	ug/L			06/18/14 05:31	1
Chloroform	ND		5.0	0.54	ug/L			06/18/14 05:31	1
Chloromethane	ND		5.0	0.64	ug/L			06/18/14 05:31	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			06/18/14 05:31	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/18/14 05:31	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/18/14 05:31	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			06/18/14 05:31	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/18/14 05:31	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/18/14 05:31	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			06/18/14 05:31	1
o-Xylene	ND		5.0	0.43	ug/L			06/18/14 05:31	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/18/14 05:31	1
Toluene	ND		5.0	0.45	ug/L			06/18/14 05:31	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			06/18/14 05:31	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/18/14 05:31	1
Trichloroethene	ND		5.0	0.60	ug/L			06/18/14 05:31	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/18/14 05:31	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/18/14 05:31	1
Xylenes, Total	ND		10	1.1	ug/L			06/18/14 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*06/18/14 05:31*	*1*
4-Bromofluorobenzene (Surr)	*94*		*69 - 121*		*06/18/14 05:31*	*1*
Toluene-d8 (Surr)	*98*		*70 - 123*		*06/18/14 05:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6.3**		0.20	0.060	mg/L		06/16/14 08:00	06/18/14 22:10	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 08:00	06/18/14 22:10	1
Arsenic	**0.0058**	**J**	0.015	0.0056	mg/L		06/16/14 08:00	06/18/14 22:10	1
Barium	**0.074**		0.0020	0.00070	mg/L		06/16/14 08:00	06/18/14 22:10	1
Beryllium	**0.00045**	**J**	0.0020	0.00030	mg/L		06/16/14 08:00	06/18/14 22:10	1
Boron	**0.027**	**B**	0.020	0.0040	mg/L		06/16/14 08:00	06/18/14 22:10	1

Client Sample ID: GW-B

Date Collected: 06/12/14 14:45
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 08:00	06/18/14 22:10	1
Calcium	**76**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:10	1
Chromium	**0.0078**		0.0040	0.0010	mg/L		06/16/14 08:00	06/18/14 22:10	1
Copper	**0.012**		0.010	0.0016	mg/L		06/16/14 08:00	06/18/14 22:10	1
Iron	**8.0**		0.050	0.019	mg/L		06/16/14 08:00	06/18/14 22:10	1
Lead	**0.0070**	**J**	0.010	0.0030	mg/L		06/16/14 08:00	06/18/14 22:10	1
Magnesium	**16**		0.20	0.043	mg/L		06/16/14 08:00	06/18/14 22:10	1
Manganese	**1.0**		0.0030	0.00040	mg/L		06/16/14 08:00	06/18/14 22:10	1
Nickel	**0.018**		0.010	0.0013	mg/L		06/16/14 08:00	06/18/14 22:10	1
Potassium	**4.4**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:10	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 08:00	06/18/14 22:10	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 08:00	06/18/14 22:10	1
Sodium	**3.2**		1.0	0.32	mg/L		06/16/14 08:00	06/18/14 22:10	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 08:00	06/18/14 22:10	1
Zinc	**0.028**		0.010	0.0015	mg/L		06/16/14 08:00	06/18/14 22:10	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.14**	**J**	0.20	0.060	mg/L		06/16/14 12:05	06/20/14 14:34	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 12:05	06/20/14 14:34	1
Arsenic	ND		0.015	0.0056	mg/L		06/16/14 12:05	06/20/14 14:34	1
Barium	**0.27**		0.0020	0.00070	mg/L		06/16/14 12:05	06/20/14 14:34	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 12:05	06/20/14 14:34	1
Boron	**0.020**		0.020	0.0040	mg/L		06/16/14 12:05	06/20/14 14:34	1
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 12:05	06/20/14 14:34	1
Calcium	**72**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:34	1
Chromium	**0.0038**	**J**	0.0040	0.0010	mg/L		06/16/14 12:05	06/20/14 14:34	1
Cobalt	**0.0014**	**J**	0.0040	0.00063	mg/L		06/16/14 12:05	06/20/14 14:34	1
Copper	**0.0054**	**J**	0.010	0.0016	mg/L		06/16/14 12:05	06/20/14 14:34	1
Iron	**0.22**		0.050	0.019	mg/L		06/16/14 12:05	06/20/14 14:34	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 12:05	06/20/14 14:34	1
Magnesium	**15**		0.20	0.043	mg/L		06/16/14 12:05	06/20/14 14:34	1
Manganese	**0.44**		0.0030	0.00040	mg/L		06/16/14 12:05	06/20/14 14:34	1
Nickel	**0.010**		0.010	0.0013	mg/L		06/16/14 12:05	06/20/14 14:34	1
Potassium	**2.2**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:34	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 12:05	06/20/14 14:34	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 12:05	06/20/14 14:34	1
Sodium	**4.1**		1.0	0.32	mg/L		06/16/14 12:05	06/20/14 14:34	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 12:05	06/20/14 14:34	1
Vanadium	ND		0.0050	0.0015	mg/L		06/16/14 12:05	06/20/14 14:34	1
Zinc	**0.0055**	**J B**	0.010	0.0015	mg/L		06/16/14 12:05	06/20/14 14:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/16/14 14:30	06/17/14 10:11	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		06/17/14 10:15	06/17/14 14:55	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-B

Date Collected: 06/12/14 14:45
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**0.82**		0.50	0.28	mg/L			06/20/14 11:32	1
Sulfate	**23**		2.0	0.35	mg/L			06/20/14 11:32	1
Alkalinity, Total	**260**		100	40	mg/L			06/20/14 12:30	10
Ammonia	**0.14**		0.020	0.0090	mg/L			06/24/14 18:38	1
Total Kjeldahl Nitrogen	**2.7**		0.20	0.15	mg/L		06/18/14 19:32	06/19/14 10:12	1
Nitrate as N	**0.31**		0.050	0.020	mg/L			06/13/14 16:27	1
Chemical Oxygen Demand	**110**		10	5.0	mg/L			06/16/14 17:30	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			06/13/14 10:03	1
Cyanide, Total	ND		0.010	0.0050	mg/L		06/20/14 15:55	06/23/14 08:24	1
Total Organic Carbon	**46**		1.0	0.43	mg/L			06/17/14 14:19	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/23/14 17:30	06/24/14 11:14	1
Hardness	**250**		10	2.6	mg/L			06/24/14 10:29	1
Total Dissolved Solids	**420**		10	4.0	mg/L			06/16/14 23:18	1
Biochemical Oxygen Demand	**2.2**	**b**	2.0	2.0	mg/L			06/13/14 17:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**160**		1.0	1.0	NTU			06/13/14 10:32	1
Color	**140**		10	10	Color Units			06/13/14 11:17	2

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: SW-02

Date Collected: 06/12/14 14:30
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-4
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			06/18/14 05:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/18/14 05:55	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/18/14 05:55	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/18/14 05:55	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/18/14 05:55	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/18/14 05:55	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/18/14 05:55	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/18/14 05:55	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/18/14 05:55	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/18/14 05:55	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/18/14 05:55	1
Benzene	ND		5.0	0.60	ug/L			06/18/14 05:55	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/18/14 05:55	1
Bromoform	ND		5.0	0.47	ug/L			06/18/14 05:55	1
Bromomethane	ND		5.0	1.2	ug/L			06/18/14 05:55	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/18/14 05:55	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/18/14 05:55	1
Chloroethane	ND		5.0	0.87	ug/L			06/18/14 05:55	1
Chloroform	ND		5.0	0.54	ug/L			06/18/14 05:55	1
Chloromethane	ND		5.0	0.64	ug/L			06/18/14 05:55	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			06/18/14 05:55	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/18/14 05:55	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/18/14 05:55	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			06/18/14 05:55	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/18/14 05:55	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/18/14 05:55	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			06/18/14 05:55	1
o-Xylene	ND		5.0	0.43	ug/L			06/18/14 05:55	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/18/14 05:55	1
Toluene	ND		5.0	0.45	ug/L			06/18/14 05:55	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			06/18/14 05:55	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/18/14 05:55	1
Trichloroethene	ND		5.0	0.60	ug/L			06/18/14 05:55	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/18/14 05:55	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/18/14 05:55	1
Xylenes, Total	ND		10	1.1	ug/L			06/18/14 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*06/18/14 05:55*	*1*
4-Bromofluorobenzene (Surr)	*96*		*69 - 121*		*06/18/14 05:55*	*1*
Toluene-d8 (Surr)	*100*		*70 - 123*		*06/18/14 05:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.55**		0.20	0.060	mg/L		06/16/14 08:00	06/18/14 22:08	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 08:00	06/18/14 22:08	1
Arsenic	ND		0.015	0.0056	mg/L		06/16/14 08:00	06/18/14 22:08	1
Barium	**0.024**		0.0020	0.00070	mg/L		06/16/14 08:00	06/18/14 22:08	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 08:00	06/18/14 22:08	1
Boron	**0.023**	**B**	0.020	0.0040	mg/L		06/16/14 08:00	06/18/14 22:08	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: SW-02

Date Collected: 06/12/14 14:30
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 08:00	06/18/14 22:08	1
Calcium	**44**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:08	1
Chromium	ND		0.0040	0.0010	mg/L		06/16/14 08:00	06/18/14 22:08	1
Copper	**0.0017**	**J**	0.010	0.0016	mg/L		06/16/14 08:00	06/18/14 22:08	1
Iron	**0.77**		0.050	0.019	mg/L		06/16/14 08:00	06/18/14 22:08	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 08:00	06/18/14 22:08	1
Magnesium	**15**		0.20	0.043	mg/L		06/16/14 08:00	06/18/14 22:08	1
Manganese	**0.11**		0.0030	0.00040	mg/L		06/16/14 08:00	06/18/14 22:08	1
Nickel	ND		0.010	0.0013	mg/L		06/16/14 08:00	06/18/14 22:08	1
Potassium	**1.8**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:08	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 08:00	06/18/14 22:08	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 08:00	06/18/14 22:08	1
Sodium	**32**		1.0	0.32	mg/L		06/16/14 08:00	06/18/14 22:08	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 08:00	06/18/14 22:08	1
Zinc	**0.0055**	**J**	0.010	0.0015	mg/L		06/16/14 08:00	06/18/14 22:08	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/16/14 12:05	06/20/14 14:37	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 12:05	06/20/14 14:37	1
Arsenic	ND		0.015	0.0056	mg/L		06/16/14 12:05	06/20/14 14:37	1
Barium	**0.021**		0.0020	0.00070	mg/L		06/16/14 12:05	06/20/14 14:37	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 12:05	06/20/14 14:37	1
Boron	**0.021**		0.020	0.0040	mg/L		06/16/14 12:05	06/20/14 14:37	1
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 12:05	06/20/14 14:37	1
Calcium	**42**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:37	1
Chromium	**0.0019**	**J**	0.0040	0.0010	mg/L		06/16/14 12:05	06/20/14 14:37	1
Cobalt	ND		0.0040	0.00063	mg/L		06/16/14 12:05	06/20/14 14:37	1
Copper	**0.0016**	**J**	0.010	0.0016	mg/L		06/16/14 12:05	06/20/14 14:37	1
Iron	**0.026**	**J**	0.050	0.019	mg/L		06/16/14 12:05	06/20/14 14:37	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 12:05	06/20/14 14:37	1
Magnesium	**15**		0.20	0.043	mg/L		06/16/14 12:05	06/20/14 14:37	1
Manganese	**0.0062**		0.0030	0.00040	mg/L		06/16/14 12:05	06/20/14 14:37	1
Nickel	ND		0.010	0.0013	mg/L		06/16/14 12:05	06/20/14 14:37	1
Potassium	**1.5**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:37	1
Selenium	**0.0090**	**J**	0.025	0.0087	mg/L		06/16/14 12:05	06/20/14 14:37	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 12:05	06/20/14 14:37	1
Sodium	**32**		1.0	0.32	mg/L		06/16/14 12:05	06/20/14 14:37	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 12:05	06/20/14 14:37	1
Vanadium	ND		0.0050	0.0015	mg/L		06/16/14 12:05	06/20/14 14:37	1
Zinc	**0.0028**	**J B**	0.010	0.0015	mg/L		06/16/14 12:05	06/20/14 14:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/16/14 14:30	06/17/14 10:09	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		06/17/14 10:15	06/17/14 14:28	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: SW-02

Date Collected: 06/12/14 14:30
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-4

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61**		0.50	0.28	mg/L			06/20/14 11:43	1
Sulfate	**14**		2.0	0.35	mg/L			06/20/14 11:43	1
Alkalinity, Total	**140**		50	20	mg/L			06/20/14 12:52	5
Ammonia	**0.053**		0.020	0.0090	mg/L			06/17/14 12:54	1
Total Kjeldahl Nitrogen	**0.44**		0.20	0.15	mg/L		06/18/14 19:32	06/19/14 10:12	1
Nitrate as N	**0.93**		0.050	0.020	mg/L			06/13/14 17:05	1
Chemical Oxygen Demand	**9.0**	**J**	10	5.0	mg/L			06/16/14 17:30	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			06/13/14 10:45	1
Cyanide, Total	ND		0.010	0.0050	mg/L		06/20/14 15:55	06/23/14 08:25	1
Total Organic Carbon	**4.4**		1.0	0.43	mg/L			06/17/14 17:10	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/23/14 17:30	06/24/14 11:20	1
Hardness	**180**		4.0	1.1	mg/L			06/24/14 10:39	1
Total Dissolved Solids	**310**		10	4.0	mg/L			06/16/14 23:20	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			06/13/14 17:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**17**		1.0	1.0	NTU			06/13/14 10:32	1
Color	**40**		5.0	5.0	Color Units			06/13/14 11:17	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: SW-01

Date Collected: 06/12/14 15:12
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-5

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			06/18/14 06:19	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/18/14 06:19	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/18/14 06:19	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/18/14 06:19	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/18/14 06:19	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/18/14 06:19	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/18/14 06:19	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/18/14 06:19	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/18/14 06:19	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/18/14 06:19	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/18/14 06:19	1
Benzene	ND		5.0	0.60	ug/L			06/18/14 06:19	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/18/14 06:19	1
Bromoform	ND		5.0	0.47	ug/L			06/18/14 06:19	1
Bromomethane	ND		5.0	1.2	ug/L			06/18/14 06:19	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/18/14 06:19	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/18/14 06:19	1
Chloroethane	ND		5.0	0.87	ug/L			06/18/14 06:19	1
Chloroform	ND		5.0	0.54	ug/L			06/18/14 06:19	1
Chloromethane	ND		5.0	0.64	ug/L			06/18/14 06:19	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			06/18/14 06:19	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/18/14 06:19	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/18/14 06:19	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			06/18/14 06:19	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/18/14 06:19	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/18/14 06:19	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			06/18/14 06:19	1
o-Xylene	ND		5.0	0.43	ug/L			06/18/14 06:19	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/18/14 06:19	1
Toluene	ND		5.0	0.45	ug/L			06/18/14 06:19	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			06/18/14 06:19	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/18/14 06:19	1
Trichloroethene	ND		5.0	0.60	ug/L			06/18/14 06:19	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/18/14 06:19	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/18/14 06:19	1
Xylenes, Total	ND		10	1.1	ug/L			06/18/14 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*06/18/14 06:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 121*		*06/18/14 06:19*	*1*
Toluene-d8 (Surr)	*100*		*70 - 123*		*06/18/14 06:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.57**		0.20	0.060	mg/L		06/16/14 08:00	06/18/14 22:13	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 08:00	06/18/14 22:13	1
Arsenic	ND		0.015	0.0056	mg/L		06/16/14 08:00	06/18/14 22:13	1
Barium	**0.024**		0.0020	0.00070	mg/L		06/16/14 08:00	06/18/14 22:13	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 08:00	06/18/14 22:13	1
Boron	**0.022**	B	0.020	0.0040	mg/L		06/16/14 08:00	06/18/14 22:13	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: SW-01

Date Collected: 06/12/14 15:12
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 08:00	06/18/14 22:13	1
Calcium	**43**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:13	1
Chromium	ND		0.0040	0.0010	mg/L		06/16/14 08:00	06/18/14 22:13	1
Copper	ND		0.010	0.0016	mg/L		06/16/14 08:00	06/18/14 22:13	1
Iron	**0.81**		0.050	0.019	mg/L		06/16/14 08:00	06/18/14 22:13	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 08:00	06/18/14 22:13	1
Magnesium	**15**		0.20	0.043	mg/L		06/16/14 08:00	06/18/14 22:13	1
Manganese	**0.11**		0.0030	0.00040	mg/L		06/16/14 08:00	06/18/14 22:13	1
Nickel	**0.0015**	**J**	0.010	0.0013	mg/L		06/16/14 08:00	06/18/14 22:13	1
Potassium	**1.8**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:13	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 08:00	06/18/14 22:13	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 08:00	06/18/14 22:13	1
Sodium	**32**		1.0	0.32	mg/L		06/16/14 08:00	06/18/14 22:13	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 08:00	06/18/14 22:13	1
Zinc	**0.0060**	**J**	0.010	0.0015	mg/L		06/16/14 08:00	06/18/14 22:13	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/16/14 12:05	06/20/14 14:40	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 12:05	06/20/14 14:40	1
Arsenic	ND		0.015	0.0056	mg/L		06/16/14 12:05	06/20/14 14:40	1
Barium	**0.022**		0.0020	0.00070	mg/L		06/16/14 12:05	06/20/14 14:40	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 12:05	06/20/14 14:40	1
Boron	**0.022**		0.020	0.0040	mg/L		06/16/14 12:05	06/20/14 14:40	1
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 12:05	06/20/14 14:40	1
Calcium	**42**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:40	1
Chromium	**0.0015**	**J**	0.0040	0.0010	mg/L		06/16/14 12:05	06/20/14 14:40	1
Cobalt	ND		0.0040	0.00063	mg/L		06/16/14 12:05	06/20/14 14:40	1
Copper	ND		0.010	0.0016	mg/L		06/16/14 12:05	06/20/14 14:40	1
Iron	**0.095**		0.050	0.019	mg/L		06/16/14 12:05	06/20/14 14:40	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 12:05	06/20/14 14:40	1
Magnesium	**16**		0.20	0.043	mg/L		06/16/14 12:05	06/20/14 14:40	1
Manganese	**0.0059**		0.0030	0.00040	mg/L		06/16/14 12:05	06/20/14 14:40	1
Nickel	ND		0.010	0.0013	mg/L		06/16/14 12:05	06/20/14 14:40	1
Potassium	**1.6**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:40	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 12:05	06/20/14 14:40	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 12:05	06/20/14 14:40	1
Sodium	**33**		1.0	0.32	mg/L		06/16/14 12:05	06/20/14 14:40	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 12:05	06/20/14 14:40	1
Vanadium	ND		0.0050	0.0015	mg/L		06/16/14 12:05	06/20/14 14:40	1
Zinc	**0.0047**	**J B**	0.010	0.0015	mg/L		06/16/14 12:05	06/20/14 14:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/16/14 14:30	06/17/14 10:13	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		06/17/14 10:15	06/17/14 14:37	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: SW-01

Date Collected: 06/12/14 15:12
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61**		0.50	0.28	mg/L			06/20/14 11:53	1
Sulfate	**14**		2.0	0.35	mg/L			06/20/14 11:53	1
Alkalinity, Total	**130**		50	20	mg/L			06/20/14 12:51	5
Ammonia	**0.053**		0.020	0.0090	mg/L			06/17/14 12:55	1
Total Kjeldahl Nitrogen	**0.41**		0.20	0.15	mg/L		06/18/14 19:32	06/19/14 10:12	1
Nitrate as N	**0.91**		0.050	0.020	mg/L			06/13/14 16:30	1
Chemical Oxygen Demand	**10**		10	5.0	mg/L			06/16/14 17:30	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			06/13/14 10:08	1
Cyanide, Total	ND		0.010	0.0050	mg/L		06/19/14 17:30	06/20/14 10:33	1
Total Organic Carbon	**4.4**		1.0	0.43	mg/L			06/17/14 17:39	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/23/14 20:30	06/24/14 11:08	1
Hardness	**180**		4.0	1.1	mg/L			06/24/14 10:57	1
Total Dissolved Solids	**310**		10	4.0	mg/L			06/16/14 23:22	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			06/13/14 17:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**16**		1.0	1.0	NTU			06/13/14 10:32	1
Color	**35**		5.0	5.0	Color Units			06/13/14 11:17	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-3

Date Collected: 06/12/14 16:40
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-6
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			06/18/14 06:43	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/18/14 06:43	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/18/14 06:43	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/18/14 06:43	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/18/14 06:43	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/18/14 06:43	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/18/14 06:43	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/18/14 06:43	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/18/14 06:43	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/18/14 06:43	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/18/14 06:43	1
Benzene	ND		5.0	0.60	ug/L			06/18/14 06:43	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/18/14 06:43	1
Bromoform	ND		5.0	0.47	ug/L			06/18/14 06:43	1
Bromomethane	ND		5.0	1.2	ug/L			06/18/14 06:43	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/18/14 06:43	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/18/14 06:43	1
Chloroethane	ND		5.0	0.87	ug/L			06/18/14 06:43	1
Chloroform	ND		5.0	0.54	ug/L			06/18/14 06:43	1
Chloromethane	ND		5.0	0.64	ug/L			06/18/14 06:43	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			06/18/14 06:43	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/18/14 06:43	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/18/14 06:43	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			06/18/14 06:43	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/18/14 06:43	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/18/14 06:43	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			06/18/14 06:43	1
o-Xylene	ND		5.0	0.43	ug/L			06/18/14 06:43	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/18/14 06:43	1
Toluene	ND		5.0	0.45	ug/L			06/18/14 06:43	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			06/18/14 06:43	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/18/14 06:43	1
Trichloroethene	ND		5.0	0.60	ug/L			06/18/14 06:43	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/18/14 06:43	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/18/14 06:43	1
Xylenes, Total	ND		10	1.1	ug/L			06/18/14 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*06/18/14 06:43*	*1*
4-Bromofluorobenzene (Surr)	*94*		*69 - 121*		*06/18/14 06:43*	*1*
Toluene-d8 (Surr)	*99*		*70 - 123*		*06/18/14 06:43*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.21**		0.20	0.060	mg/L		06/16/14 08:00	06/18/14 22:16	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 08:00	06/18/14 22:16	1
Arsenic	**0.029**		0.015	0.0056	mg/L		06/16/14 08:00	06/18/14 22:16	1
Barium	**0.49**		0.0020	0.00070	mg/L		06/16/14 08:00	06/18/14 22:16	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 08:00	06/18/14 22:16	1
Boron	**0.17**	**B**	0.020	0.0040	mg/L		06/16/14 08:00	06/18/14 22:16	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-3

Date Collected: 06/12/14 16:40
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 08:00	06/18/14 22:16	1
Calcium	**150**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:16	1
Chromium	ND		0.0040	0.0010	mg/L		06/16/14 08:00	06/18/14 22:16	1
Copper	ND		0.010	0.0016	mg/L		06/16/14 08:00	06/18/14 22:16	1
Iron	**13**		0.050	0.019	mg/L		06/16/14 08:00	06/18/14 22:16	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 08:00	06/18/14 22:16	1
Magnesium	**48**		0.20	0.043	mg/L		06/16/14 08:00	06/18/14 22:16	1
Manganese	**1.4**		0.0030	0.00040	mg/L		06/16/14 08:00	06/18/14 22:16	1
Nickel	**0.0073**	**J**	0.010	0.0013	mg/L		06/16/14 08:00	06/18/14 22:16	1
Potassium	**8.0**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:16	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 08:00	06/18/14 22:16	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 08:00	06/18/14 22:16	1
Sodium	**45**		1.0	0.32	mg/L		06/16/14 08:00	06/18/14 22:16	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 08:00	06/18/14 22:16	1
Zinc	**0.0054**	**J**	0.010	0.0015	mg/L		06/16/14 08:00	06/18/14 22:16	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/16/14 12:05	06/20/14 14:52	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 12:05	06/20/14 14:52	1
Arsenic	**0.010**	**J**	0.015	0.0056	mg/L		06/16/14 12:05	06/20/14 14:52	1
Barium	**0.43**		0.0020	0.00070	mg/L		06/16/14 12:05	06/20/14 14:52	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 12:05	06/20/14 14:52	1
Boron	**0.17**		0.020	0.0040	mg/L		06/16/14 12:05	06/20/14 14:52	1
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 12:05	06/20/14 14:52	1
Calcium	**140**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:52	1
Chromium	**0.0018**	**J**	0.0040	0.0010	mg/L		06/16/14 12:05	06/20/14 14:52	1
Cobalt	**0.0024**	**J**	0.0040	0.00063	mg/L		06/16/14 12:05	06/20/14 14:52	1
Copper	ND		0.010	0.0016	mg/L		06/16/14 12:05	06/20/14 14:52	1
Iron	ND		0.050	0.019	mg/L		06/16/14 12:05	06/20/14 14:52	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 12:05	06/20/14 14:52	1
Magnesium	**48**		0.20	0.043	mg/L		06/16/14 12:05	06/20/14 14:52	1
Manganese	**1.2**		0.0030	0.00040	mg/L		06/16/14 12:05	06/20/14 14:52	1
Nickel	**0.0064**	**J**	0.010	0.0013	mg/L		06/16/14 12:05	06/20/14 14:52	1
Potassium	**7.9**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:52	1
Selenium	**0.0091**	**J**	0.025	0.0087	mg/L		06/16/14 12:05	06/20/14 14:52	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 12:05	06/20/14 14:52	1
Sodium	**45**		1.0	0.32	mg/L		06/16/14 12:05	06/20/14 14:52	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 12:05	06/20/14 14:52	1
Vanadium	ND		0.0050	0.0015	mg/L		06/16/14 12:05	06/20/14 14:52	1
Zinc	**0.0041**	**J B**	0.010	0.0015	mg/L		06/16/14 12:05	06/20/14 14:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/16/14 14:30	06/17/14 10:14	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		06/17/14 10:15	06/17/14 14:46	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-3

Date Collected: 06/12/14 16:40
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54**		0.50	0.28	mg/L			06/20/14 12:03	1
Sulfate	**67**		2.0	0.35	mg/L			06/20/14 12:03	1
Alkalinity, Total	**630**		100	40	mg/L			06/20/14 12:30	10
Ammonia	**6.3**		0.10	0.045	mg/L			06/17/14 15:07	5
Total Kjeldahl Nitrogen	**6.8**		0.40	0.30	mg/L		06/18/14 19:32	06/19/14 10:43	2
Nitrate as N	ND		0.050	0.020	mg/L			06/13/14 16:31	1
Chemical Oxygen Demand	**21**		10	5.0	mg/L			06/16/14 17:30	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			06/13/14 10:13	1
Cyanide, Total	ND		0.010	0.0050	mg/L		06/19/14 17:30	06/20/14 10:34	1
Total Organic Carbon	**5.5**		1.0	0.43	mg/L			06/17/14 18:07	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/25/14 12:19	06/26/14 09:50	1
Hardness	**600**		20	5.3	mg/L			06/24/14 11:04	1
Total Dissolved Solids	**780**		10	4.0	mg/L			06/16/14 23:23	1
Biochemical Oxygen Demand	**14**	**b**	2.0	2.0	mg/L			06/13/14 17:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**150**		1.0	1.0	NTU			06/13/14 10:32	1
Color	**5.0**		5.0	5.0	Color Units			06/13/14 11:17	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-1

Date Collected: 06/12/14 16:15
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-7
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			06/18/14 07:07	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/18/14 07:07	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/18/14 07:07	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/18/14 07:07	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/18/14 07:07	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/18/14 07:07	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/18/14 07:07	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/18/14 07:07	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/18/14 07:07	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/18/14 07:07	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/18/14 07:07	1
Benzene	ND		5.0	0.60	ug/L			06/18/14 07:07	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/18/14 07:07	1
Bromoform	ND		5.0	0.47	ug/L			06/18/14 07:07	1
Bromomethane	ND		5.0	1.2	ug/L			06/18/14 07:07	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/18/14 07:07	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/18/14 07:07	1
Chloroethane	ND		5.0	0.87	ug/L			06/18/14 07:07	1
Chloroform	ND		5.0	0.54	ug/L			06/18/14 07:07	1
Chloromethane	ND		5.0	0.64	ug/L			06/18/14 07:07	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			06/18/14 07:07	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/18/14 07:07	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/18/14 07:07	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			06/18/14 07:07	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/18/14 07:07	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/18/14 07:07	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			06/18/14 07:07	1
o-Xylene	ND		5.0	0.43	ug/L			06/18/14 07:07	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/18/14 07:07	1
Toluene	ND		5.0	0.45	ug/L			06/18/14 07:07	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			06/18/14 07:07	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/18/14 07:07	1
Trichloroethene	ND		5.0	0.60	ug/L			06/18/14 07:07	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/18/14 07:07	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/18/14 07:07	1
Xylenes, Total	ND		10	1.1	ug/L			06/18/14 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*		*06/18/14 07:07*	*1*
4-Bromofluorobenzene (Surr)	*96*		*69 - 121*		*06/18/14 07:07*	*1*
Toluene-d8 (Surr)	*102*		*70 - 123*		*06/18/14 07:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.60**		0.20	0.060	mg/L		06/16/14 08:00	06/18/14 22:19	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 08:00	06/18/14 22:19	1
Arsenic	**0.12**		0.015	0.0056	mg/L		06/16/14 08:00	06/18/14 22:19	1
Barium	**1.2**		0.0020	0.00070	mg/L		06/16/14 08:00	06/18/14 22:19	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 08:00	06/18/14 22:19	1
Boron	**0.27**	**B**	0.020	0.0040	mg/L		06/16/14 08:00	06/18/14 22:19	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-1

Date Collected: 06/12/14 16:15
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.00094**	**J**	0.0020	0.00050	mg/L		06/16/14 08:00	06/18/14 22:19	1
Calcium	**92**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:19	1
Chromium	ND		0.0040	0.0010	mg/L		06/16/14 08:00	06/18/14 22:19	1
Copper	ND		0.010	0.0016	mg/L		06/16/14 08:00	06/18/14 22:19	1
Iron	**11**		0.050	0.019	mg/L		06/16/14 08:00	06/18/14 22:19	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 08:00	06/18/14 22:19	1
Magnesium	**57**		0.20	0.043	mg/L		06/16/14 08:00	06/18/14 22:19	1
Manganese	**0.28**		0.0030	0.00040	mg/L		06/16/14 08:00	06/18/14 22:19	1
Nickel	**0.013**		0.010	0.0013	mg/L		06/16/14 08:00	06/18/14 22:19	1
Potassium	**19**		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:19	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 08:00	06/18/14 22:19	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 08:00	06/18/14 22:19	1
Sodium	**65**		1.0	0.32	mg/L		06/16/14 08:00	06/18/14 22:19	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 08:00	06/18/14 22:19	1
Zinc	**0.012**		0.010	0.0015	mg/L		06/16/14 08:00	06/18/14 22:19	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/16/14 12:05	06/20/14 14:56	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 12:05	06/20/14 14:56	1
Arsenic	**0.037**		0.015	0.0056	mg/L		06/16/14 12:05	06/20/14 14:56	1
Barium	**1.1**		0.0020	0.00070	mg/L		06/16/14 12:05	06/20/14 14:56	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 12:05	06/20/14 14:56	1
Boron	**0.28**		0.020	0.0040	mg/L		06/16/14 12:05	06/20/14 14:56	1
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 12:05	06/20/14 14:56	1
Calcium	**89**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:56	1
Chromium	**0.0019**	**J**	0.0040	0.0010	mg/L		06/16/14 12:05	06/20/14 14:56	1
Cobalt	**0.00063**	**J**	0.0040	0.00063	mg/L		06/16/14 12:05	06/20/14 14:56	1
Copper	ND		0.010	0.0016	mg/L		06/16/14 12:05	06/20/14 14:56	1
Iron	**0.019**	**J**	0.050	0.019	mg/L		06/16/14 12:05	06/20/14 14:56	1
Lead	**0.0038**	**J**	0.010	0.0030	mg/L		06/16/14 12:05	06/20/14 14:56	1
Magnesium	**60**		0.20	0.043	mg/L		06/16/14 12:05	06/20/14 14:56	1
Manganese	**0.23**		0.0030	0.00040	mg/L		06/16/14 12:05	06/20/14 14:56	1
Nickel	**0.012**		0.010	0.0013	mg/L		06/16/14 12:05	06/20/14 14:56	1
Potassium	**19**		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:56	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 12:05	06/20/14 14:56	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 12:05	06/20/14 14:56	1
Sodium	**65**		1.0	0.32	mg/L		06/16/14 12:05	06/20/14 14:56	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 12:05	06/20/14 14:56	1
Vanadium	ND		0.0050	0.0015	mg/L		06/16/14 12:05	06/20/14 14:56	1
Zinc	**0.0057**	**J B**	0.010	0.0015	mg/L		06/16/14 12:05	06/20/14 14:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/17/14 10:15	06/17/14 15:19	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		06/17/14 10:15	06/17/14 14:58	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-1

Date Collected: 06/12/14 16:15
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73**		0.50	0.28	mg/L			06/20/14 12:13	1
Sulfate	**4.7**		2.0	0.35	mg/L			06/20/14 12:13	1
Alkalinity, Total	**560**		100	40	mg/L			06/19/14 11:34	10
Ammonia	**18**		0.20	0.090	mg/L			06/17/14 15:08	10
Total Kjeldahl Nitrogen	**16**		2.0	1.5	mg/L		06/18/14 19:32	06/19/14 10:39	10
Nitrate as N	**0.076**		0.050	0.020	mg/L			06/13/14 16:32	1
Chemical Oxygen Demand	**31**		10	5.0	mg/L			06/19/14 10:09	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			06/13/14 10:17	1
Cyanide, Total	ND		0.010	0.0050	mg/L		06/20/14 15:55	06/23/14 08:29	1
Total Organic Carbon	**6.0**		1.0	0.43	mg/L			06/17/14 18:35	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/23/14 20:30	06/24/14 11:08	1
Hardness	**490**		4.0	1.1	mg/L			06/24/14 09:36	1
Total Dissolved Solids	**690**		10	4.0	mg/L			06/16/14 23:25	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			06/13/14 17:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**320**		1.0	1.0	NTU			06/13/14 10:32	1
Color	**25**		5.0	5.0	Color Units			06/13/14 11:17	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-2

Date Collected: 06/12/14 16:30
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-8
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			06/18/14 07:30	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/18/14 07:30	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/18/14 07:30	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/18/14 07:30	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/18/14 07:30	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/18/14 07:30	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/18/14 07:30	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/18/14 07:30	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/18/14 07:30	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/18/14 07:30	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/18/14 07:30	1
Benzene	ND		5.0	0.60	ug/L			06/18/14 07:30	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/18/14 07:30	1
Bromoform	ND		5.0	0.47	ug/L			06/18/14 07:30	1
Bromomethane	ND		5.0	1.2	ug/L			06/18/14 07:30	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/18/14 07:30	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/18/14 07:30	1
Chloroethane	ND		5.0	0.87	ug/L			06/18/14 07:30	1
Chloroform	ND		5.0	0.54	ug/L			06/18/14 07:30	1
Chloromethane	ND		5.0	0.64	ug/L			06/18/14 07:30	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			06/18/14 07:30	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/18/14 07:30	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/18/14 07:30	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			06/18/14 07:30	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/18/14 07:30	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/18/14 07:30	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			06/18/14 07:30	1
o-Xylene	ND		5.0	0.43	ug/L			06/18/14 07:30	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/18/14 07:30	1
Toluene	ND		5.0	0.45	ug/L			06/18/14 07:30	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			06/18/14 07:30	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/18/14 07:30	1
Trichloroethene	ND		5.0	0.60	ug/L			06/18/14 07:30	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/18/14 07:30	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/18/14 07:30	1
Xylenes, Total	ND		10	1.1	ug/L			06/18/14 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*06/18/14 07:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*69 - 121*		*06/18/14 07:30*	*1*
Toluene-d8 (Surr)	*99*		*70 - 123*		*06/18/14 07:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.4**		0.20	0.060	mg/L		06/16/14 08:00	06/18/14 22:22	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 08:00	06/18/14 22:22	1
Arsenic	**0.086**		0.015	0.0056	mg/L		06/16/14 08:00	06/18/14 22:22	1
Barium	**0.38**		0.0020	0.00070	mg/L		06/16/14 08:00	06/18/14 22:22	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 08:00	06/18/14 22:22	1
Boron	**0.17**	**B**	0.020	0.0040	mg/L		06/16/14 08:00	06/18/14 22:22	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-2

Date Collected: 06/12/14 16:30
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.00062	J	0.0020	0.00050	mg/L		06/16/14 08:00	06/18/14 22:22	1
Calcium	120		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:22	1
Chromium	0.0020	J	0.0040	0.0010	mg/L		06/16/14 08:00	06/18/14 22:22	1
Copper	0.0027	J	0.010	0.0016	mg/L		06/16/14 08:00	06/18/14 22:22	1
Iron	5.3		0.050	0.019	mg/L		06/16/14 08:00	06/18/14 22:22	1
Lead	0.0042	J	0.010	0.0030	mg/L		06/16/14 08:00	06/18/14 22:22	1
Magnesium	44		0.20	0.043	mg/L		06/16/14 08:00	06/18/14 22:22	1
Manganese	1.8		0.0030	0.00040	mg/L		06/16/14 08:00	06/18/14 22:22	1
Nickel	0.0091	J	0.010	0.0013	mg/L		06/16/14 08:00	06/18/14 22:22	1
Potassium	12		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 22:22	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 08:00	06/18/14 22:22	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 08:00	06/18/14 22:22	1
Sodium	45		1.0	0.32	mg/L		06/16/14 08:00	06/18/14 22:22	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 08:00	06/18/14 22:22	1
Zinc	0.020		0.010	0.0015	mg/L		06/16/14 08:00	06/18/14 22:22	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/16/14 12:05	06/20/14 14:59	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 12:05	06/20/14 14:59	1
Arsenic	0.049		0.015	0.0056	mg/L		06/16/14 12:05	06/20/14 14:59	1
Barium	0.40		0.0020	0.00070	mg/L		06/16/14 12:05	06/20/14 14:59	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 12:05	06/20/14 14:59	1
Boron	0.18		0.020	0.0040	mg/L		06/16/14 12:05	06/20/14 14:59	1
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 12:05	06/20/14 14:59	1
Calcium	120		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:59	1
Chromium	0.0020	J	0.0040	0.0010	mg/L		06/16/14 12:05	06/20/14 14:59	1
Cobalt	0.0019	J	0.0040	0.00063	mg/L		06/16/14 12:05	06/20/14 14:59	1
Copper	ND		0.010	0.0016	mg/L		06/16/14 12:05	06/20/14 14:59	1
Iron	ND		0.050	0.019	mg/L		06/16/14 12:05	06/20/14 14:59	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 12:05	06/20/14 14:59	1
Magnesium	45		0.20	0.043	mg/L		06/16/14 12:05	06/20/14 14:59	1
Manganese	1.6		0.0030	0.00040	mg/L		06/16/14 12:05	06/20/14 14:59	1
Nickel	0.0071	J	0.010	0.0013	mg/L		06/16/14 12:05	06/20/14 14:59	1
Potassium	12		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:59	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 12:05	06/20/14 14:59	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 12:05	06/20/14 14:59	1
Sodium	47		1.0	0.32	mg/L		06/16/14 12:05	06/20/14 14:59	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 12:05	06/20/14 14:59	1
Vanadium	ND		0.0050	0.0015	mg/L		06/16/14 12:05	06/20/14 14:59	1
Zinc	0.0088	J B	0.010	0.0015	mg/L		06/16/14 12:05	06/20/14 14:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/17/14 10:15	06/17/14 15:11	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		06/17/14 10:15	06/17/14 14:43	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-2

Date Collected: 06/12/14 16:30
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-8

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58**		0.50	0.28	mg/L			06/20/14 12:23	1
Sulfate	**11**		2.0	0.35	mg/L			06/20/14 12:23	1
Alkalinity, Total	**610**		100	40	mg/L			06/20/14 12:30	10
Ammonia	**8.8**		0.10	0.045	mg/L			06/17/14 15:09	5
Total Kjeldahl Nitrogen	**8.6**		1.0	0.75	mg/L		06/18/14 19:32	06/19/14 10:39	5
Nitrate as N	**0.57**		0.050	0.020	mg/L			06/13/14 16:33	1
Chemical Oxygen Demand	ND		10	5.0	mg/L			06/19/14 10:09	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			06/13/14 10:22	1
Cyanide, Total	**0.0053**	**J**	0.010	0.0050	mg/L		06/19/14 17:30	06/20/14 10:36	1
Total Organic Carbon	**5.9**		1.0	0.43	mg/L			06/17/14 19:03	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/23/14 20:30	06/24/14 11:09	1
Hardness	**500**		10	2.6	mg/L			06/24/14 11:08	1
Total Dissolved Solids	**660**		10	4.0	mg/L			06/16/14 23:27	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			06/13/14 17:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**120**		1.0	1.0	NTU			06/13/14 10:32	1
Color	**15**		5.0	5.0	Color Units			06/13/14 11:17	1

Client Sample Results

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: TRIP BLANK

Date Collected: 06/12/14 13:25
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-9
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			06/18/14 07:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/18/14 07:54	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/18/14 07:54	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/18/14 07:54	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/18/14 07:54	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/18/14 07:54	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/18/14 07:54	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/18/14 07:54	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/18/14 07:54	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/18/14 07:54	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/18/14 07:54	1
Benzene	ND		5.0	0.60	ug/L			06/18/14 07:54	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/18/14 07:54	1
Bromoform	ND		5.0	0.47	ug/L			06/18/14 07:54	1
Bromomethane	ND		5.0	1.2	ug/L			06/18/14 07:54	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/18/14 07:54	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/18/14 07:54	1
Chloroethane	ND		5.0	0.87	ug/L			06/18/14 07:54	1
Chloroform	ND		5.0	0.54	ug/L			06/18/14 07:54	1
Chloromethane	ND		5.0	0.64	ug/L			06/18/14 07:54	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			06/18/14 07:54	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/18/14 07:54	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/18/14 07:54	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			06/18/14 07:54	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/18/14 07:54	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/18/14 07:54	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			06/18/14 07:54	1
o-Xylene	ND		5.0	0.43	ug/L			06/18/14 07:54	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/18/14 07:54	1
Toluene	ND		5.0	0.45	ug/L			06/18/14 07:54	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			06/18/14 07:54	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/18/14 07:54	1
Trichloroethene	ND		5.0	0.60	ug/L			06/18/14 07:54	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/18/14 07:54	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/18/14 07:54	1
Xylenes, Total	ND		10	1.1	ug/L			06/18/14 07:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*06/18/14 07:54*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 121*		*06/18/14 07:54*	*1*
Toluene-d8 (Surr)	*99*		*70 - 123*		*06/18/14 07:54*	*1*

Surrogate Summary

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

TestAmerica Job ID: 480-61861-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(72-130)	(69-121)	(70-123)
480-61861-2	GW-A	100	95	97
480-61861-3	GW-B	103	94	98
480-61861-4	SW-02	104	96	100
480-61861-5	SW-01	104	97	100
480-61861-6	GW-3	103	94	99
480-61861-7	GW-1	106	96	102
480-61861-8	GW-2	100	96	99
480-61861-9	TRIP BLANK	104	97	99
LCS 480-188163/5	Lab Control Sample	96	97	98
MB 480-188163/7	Method Blank	101	97	98

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 480-188163/7
Matrix: Water
Analysis Batch: 188163

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			06/17/14 13:19	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/17/14 13:19	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/17/14 13:19	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/17/14 13:19	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/17/14 13:19	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/17/14 13:19	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/17/14 13:19	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/17/14 13:19	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/17/14 13:19	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/17/14 13:19	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/17/14 13:19	1
Benzene	ND		5.0	0.60	ug/L			06/17/14 13:19	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/17/14 13:19	1
Bromoform	ND		5.0	0.47	ug/L			06/17/14 13:19	1
Bromomethane	ND		5.0	1.2	ug/L			06/17/14 13:19	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/17/14 13:19	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/17/14 13:19	1
Chloroethane	ND		5.0	0.87	ug/L			06/17/14 13:19	1
Chloroform	ND		5.0	0.54	ug/L			06/17/14 13:19	1
Chloromethane	ND		5.0	0.64	ug/L			06/17/14 13:19	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			06/17/14 13:19	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/17/14 13:19	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/17/14 13:19	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			06/17/14 13:19	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/17/14 13:19	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/17/14 13:19	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			06/17/14 13:19	1
o-Xylene	ND		5.0	0.43	ug/L			06/17/14 13:19	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/17/14 13:19	1
Toluene	ND		5.0	0.45	ug/L			06/17/14 13:19	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			06/17/14 13:19	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/17/14 13:19	1
Trichloroethene	ND		5.0	0.60	ug/L			06/17/14 13:19	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/17/14 13:19	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/17/14 13:19	1
Xylenes, Total	ND		10	1.1	ug/L			06/17/14 13:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*06/17/14 13:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*69 - 121*		*06/17/14 13:19*	*1*
Toluene-d8 (Surr)	*98*		*70 - 123*		*06/17/14 13:19*	*1*

Lab Sample ID: LCS 480-188163/5
Matrix: Water
Analysis Batch: 188163

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	52 - 162

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

Lab Sample ID: LCS 480-188163/5
Matrix: Water
Analysis Batch: 188163

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/L		96	46 - 157
1,1,2-Trichloroethane	20.0	19.1		ug/L		96	52 - 150
1,1-Dichloroethane	20.0	19.5		ug/L		98	59 - 155
1,1-Dichloroethene	20.0	20.2		ug/L		101	1 - 234
1,2-Dichlorobenzene	20.0	20.5		ug/L		102	18 - 190
1,2-Dichloroethane	20.0	19.0		ug/L		95	49 - 155
1,2-Dichloropropane	20.0	19.0		ug/L		95	1 - 210
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	59 - 156
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	18 - 190
2-Chloroethyl vinyl ether	20.0	16.9	J	ug/L		84	1 - 305
Benzene	20.0	20.0		ug/L		100	37 - 151
Bromodichloromethane	20.0	19.2		ug/L		96	35 - 155
Bromoform	20.0	16.5		ug/L		83	45 - 169
Bromomethane	20.0	24.9		ug/L		125	1 - 242
Carbon tetrachloride	20.0	21.9		ug/L		109	70 - 140
Chlorobenzene	20.0	20.1		ug/L		100	37 - 160
Chloroethane	20.0	22.2		ug/L		111	14 - 230
Chloroform	20.0	19.7		ug/L		99	51 - 138
Chloromethane	20.0	20.1		ug/L		101	1 - 273
cis-1,2-Dichloroethene	20.0	20.1		ug/L		100	
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	1 - 227
Dibromochloromethane	20.0	18.4		ug/L		92	53 - 149
Dichlorodifluoromethane	20.0	20.7		ug/L		104	
Ethylbenzene	20.0	20.6		ug/L		103	37 - 162
Methylene Chloride	20.0	17.3		ug/L		86	1 - 221
m-Xylene & p-Xylene	20.0	19.6		ug/L		98	79 - 120
o-Xylene	20.0	20.0		ug/L		100	79 - 120
Tetrachloroethene	20.0	20.2		ug/L		101	64 - 148
Toluene	20.0	19.5		ug/L		98	47 - 150
trans-1,2-Dichloroethene	20.0	20.3		ug/L		102	54 - 156
trans-1,3-Dichloropropene	20.0	18.9		ug/L		95	17 - 183
Trichloroethene	20.0	19.7		ug/L		99	71 - 157
Trichlorofluoromethane	20.0	20.9		ug/L		105	17 - 181
Vinyl chloride	20.0	20.4		ug/L		102	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*
4-Bromofluorobenzene (Surr)	*97*		*69 - 121*
Toluene-d8 (Surr)	*98*		*70 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-187751/1-A
Matrix: Water
Analysis Batch: 188615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/16/14 08:00	06/18/14 21:37	1

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

Lab Sample ID: MB 480-187751/1-A
Matrix: Water
Analysis Batch: 188615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.020	0.0068	mg/L		06/16/14 08:00	06/18/14 21:37	1
Arsenic	ND		0.015	0.0056	mg/L		06/16/14 08:00	06/18/14 21:37	1
Barium	ND		0.0020	0.00070	mg/L		06/16/14 08:00	06/18/14 21:37	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 08:00	06/18/14 21:37	1
Boron	0.00443	J	0.020	0.0040	mg/L		06/16/14 08:00	06/18/14 21:37	1
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 08:00	06/18/14 21:37	1
Calcium	ND		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 21:37	1
Chromium	ND		0.0040	0.0010	mg/L		06/16/14 08:00	06/18/14 21:37	1
Copper	ND		0.010	0.0016	mg/L		06/16/14 08:00	06/18/14 21:37	1
Iron	ND		0.050	0.019	mg/L		06/16/14 08:00	06/18/14 21:37	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 08:00	06/18/14 21:37	1
Magnesium	ND		0.20	0.043	mg/L		06/16/14 08:00	06/18/14 21:37	1
Manganese	ND		0.0030	0.00040	mg/L		06/16/14 08:00	06/18/14 21:37	1
Nickel	ND		0.010	0.0013	mg/L		06/16/14 08:00	06/18/14 21:37	1
Potassium	ND		0.50	0.10	mg/L		06/16/14 08:00	06/18/14 21:37	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 08:00	06/18/14 21:37	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 08:00	06/18/14 21:37	1
Sodium	ND		1.0	0.32	mg/L		06/16/14 08:00	06/18/14 21:37	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 08:00	06/18/14 21:37	1
Zinc	ND		0.010	0.0015	mg/L		06/16/14 08:00	06/18/14 21:37	1

Lab Sample ID: LCS 480-187751/2-A
Matrix: Water
Analysis Batch: 188615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187751

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	0.204		mg/L		102	80 - 120
Arsenic	0.200	0.201		mg/L		100	80 - 120
Barium	0.200	0.206		mg/L		103	80 - 120
Beryllium	0.200	0.202		mg/L		101	80 - 120
Boron	0.200	0.209		mg/L		105	80 - 120
Cadmium	0.200	0.205		mg/L		102	80 - 120
Calcium	10.0	9.76		mg/L		98	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Copper	0.200	0.207		mg/L		103	80 - 120
Iron	10.0	9.75		mg/L		97	80 - 120
Lead	0.200	0.203		mg/L		102	80 - 120
Magnesium	10.0	10.8		mg/L		108	80 - 120
Manganese	0.200	0.212		mg/L		106	80 - 120
Nickel	0.200	0.201		mg/L		100	80 - 120
Potassium	10.0	9.78		mg/L		98	80 - 120
Selenium	0.200	0.205		mg/L		103	80 - 120
Silver	0.0500	0.0500		mg/L		100	80 - 120
Sodium	10.0	9.62		mg/L		96	80 - 120
Thallium	0.200	0.214		mg/L		107	80 - 120
Zinc	0.200	0.208		mg/L		104	80 - 120

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

Lab Sample ID: MB 480-187770/1-B
Matrix: Water
Analysis Batch: 189205

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 187888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/16/14 12:05	06/20/14 14:22	1
Antimony	ND		0.020	0.0068	mg/L		06/16/14 12:05	06/20/14 14:22	1
Arsenic	ND		0.015	0.0056	mg/L		06/16/14 12:05	06/20/14 14:22	1
Barium	ND		0.0020	0.00070	mg/L		06/16/14 12:05	06/20/14 14:22	1
Beryllium	ND		0.0020	0.00030	mg/L		06/16/14 12:05	06/20/14 14:22	1
Boron	ND		0.020	0.0040	mg/L		06/16/14 12:05	06/20/14 14:22	1
Cadmium	ND		0.0020	0.00050	mg/L		06/16/14 12:05	06/20/14 14:22	1
Calcium	ND		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:22	1
Chromium	ND		0.0040	0.0010	mg/L		06/16/14 12:05	06/20/14 14:22	1
Cobalt	ND		0.0040	0.00063	mg/L		06/16/14 12:05	06/20/14 14:22	1
Copper	ND		0.010	0.0016	mg/L		06/16/14 12:05	06/20/14 14:22	1
Iron	ND		0.050	0.019	mg/L		06/16/14 12:05	06/20/14 14:22	1
Lead	ND		0.010	0.0030	mg/L		06/16/14 12:05	06/20/14 14:22	1
Magnesium	ND		0.20	0.043	mg/L		06/16/14 12:05	06/20/14 14:22	1
Manganese	ND		0.0030	0.00040	mg/L		06/16/14 12:05	06/20/14 14:22	1
Nickel	ND		0.010	0.0013	mg/L		06/16/14 12:05	06/20/14 14:22	1
Potassium	ND		0.50	0.10	mg/L		06/16/14 12:05	06/20/14 14:22	1
Selenium	ND		0.025	0.0087	mg/L		06/16/14 12:05	06/20/14 14:22	1
Silver	ND		0.0060	0.0017	mg/L		06/16/14 12:05	06/20/14 14:22	1
Sodium	ND		1.0	0.32	mg/L		06/16/14 12:05	06/20/14 14:22	1
Thallium	ND		0.020	0.010	mg/L		06/16/14 12:05	06/20/14 14:22	1
Vanadium	ND		0.0050	0.0015	mg/L		06/16/14 12:05	06/20/14 14:22	1
Zinc	0.00158	J	0.010	0.0015	mg/L		06/16/14 12:05	06/20/14 14:22	1

Lab Sample ID: LCS 480-187770/2-B
Matrix: Water
Analysis Batch: 189205

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 187888

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	0.216		mg/L		108	80 - 120
Beryllium	0.200	0.204		mg/L		102	80 - 120
Boron	0.200	0.206		mg/L		103	80 - 120
Cadmium	0.200	0.200		mg/L		100	80 - 120
Calcium	10.0	9.43		mg/L		94	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.200	0.201		mg/L		101	80 - 120
Copper	0.200	0.204		mg/L		102	80 - 120
Iron	10.0	9.96		mg/L		100	80 - 120
Lead	0.200	0.199		mg/L		100	80 - 120
Magnesium	10.0	10.5		mg/L		105	80 - 120
Manganese	0.200	0.205		mg/L		102	80 - 120
Nickel	0.200	0.196		mg/L		98	80 - 120
Potassium	10.0	9.86		mg/L		99	80 - 120
Selenium	0.200	0.204		mg/L		102	80 - 120
Silver	0.0500	0.0518		mg/L		104	80 - 120

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

Lab Sample ID: LCS 480-187770/2-B
Matrix: Water
Analysis Batch: 189205

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 187888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	10.0	10.1		mg/L		101	80 - 120
Thallium	0.200	0.210		mg/L		105	80 - 120
Vanadium	0.200	0.210		mg/L		105	80 - 120
Zinc	0.200	0.197		mg/L		98	80 - 120

Lab Sample ID: LCSD 480-187770/3-B
Matrix: Water
Analysis Batch: 189205

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 187888

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	10.0	10.4		mg/L		104	80 - 120	1	20
Antimony	0.200	0.201		mg/L		101	80 - 120	0	20
Arsenic	0.200	0.199		mg/L		99	80 - 120	2	20
Barium	0.200	0.215		mg/L		107	80 - 120	0	20
Beryllium	0.200	0.205		mg/L		103	80 - 120	1	20
Boron	0.200	0.208		mg/L		104	80 - 120	1	20
Cadmium	0.200	0.203		mg/L		101	80 - 120	1	20
Calcium	10.0	9.73		mg/L		97	80 - 120	3	20
Chromium	0.200	0.204		mg/L		102	80 - 120	3	20
Cobalt	0.200	0.205		mg/L		102	80 - 120	2	20
Copper	0.200	0.207		mg/L		103	80 - 120	1	20
Iron	10.0	10.1		mg/L		101	80 - 120	2	20
Lead	0.200	0.201		mg/L		100	80 - 120	1	20
Magnesium	10.0	10.5		mg/L		105	80 - 120	1	20
Manganese	0.200	0.207		mg/L		104	80 - 120	1	20
Nickel	0.200	0.199		mg/L		99	80 - 120	1	20
Potassium	10.0	9.89		mg/L		99	80 - 120	0	20
Selenium	0.200	0.204		mg/L		102	80 - 120	0	20
Silver	0.0500	0.0518		mg/L		104	80 - 120	0	20
Sodium	10.0	10.1		mg/L		101	80 - 120	0	20
Thallium	0.200	0.210		mg/L		105	80 - 120	0	20
Vanadium	0.200	0.212		mg/L		106	80 - 120	1	20
Zinc	0.200	0.202		mg/L		101	80 - 120	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-187990/1-A
Matrix: Water
Analysis Batch: 188161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/16/14 14:30	06/17/14 09:26	1

Lab Sample ID: LCS 480-187990/2-A
Matrix: Water
Analysis Batch: 188161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00613		mg/L		92	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 480-187992/1-A
Matrix: Water
Analysis Batch: 188305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/17/14 10:15	06/17/14 13:11	1

Lab Sample ID: LCS 480-187992/2-A
Matrix: Water
Analysis Batch: 188305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00707		mg/L		106	80 - 120

Lab Sample ID: MB 480-188082/1-A
Matrix: Water
Analysis Batch: 188305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/17/14 10:15	06/17/14 14:05	1

Lab Sample ID: LCS 480-188082/2-A
Matrix: Water
Analysis Batch: 188305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00693		mg/L		104	80 - 120

Lab Sample ID: MB 480-188119/1-A
Matrix: Water
Analysis Batch: 188305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/17/14 10:15	06/17/14 15:04	1

Lab Sample ID: LCS 480-188119/2-A
Matrix: Water
Analysis Batch: 188305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00697		mg/L		104	80 - 120

Lab Sample ID: 480-61861-8 MS
Matrix: Water
Analysis Batch: 188305

Client Sample ID: GW-2
Prep Type: Total/NA
Prep Batch: 188119

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00693		mg/L		104	75 - 125

Lab Sample ID: 480-61861-8 MSD
Matrix: Water
Analysis Batch: 188305

Client Sample ID: GW-2
Prep Type: Total/NA
Prep Batch: 188119

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00710		mg/L		106	75 - 125	2	20

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 480-187550/27
Matrix: Water
Analysis Batch: 187550

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			06/13/14 08:37	1

Lab Sample ID: 480-61861-5 DU
Matrix: Water
Analysis Batch: 187550

Client Sample ID: SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Turbidity	16		14.7		NTU		7	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-188730/100
Matrix: Water
Analysis Batch: 188730

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			06/20/14 09:31	1
Sulfate	ND		2.0	0.35	mg/L			06/20/14 09:31	1

Lab Sample ID: LCS 480-188730/99
Matrix: Water
Analysis Batch: 188730

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	19.8		mg/L		99	90 - 110
Sulfate	20.0	19.3		mg/L		96	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-188771/28
Matrix: Water
Analysis Batch: 188771

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	4.0	mg/L			06/19/14 10:07	1

Lab Sample ID: MB 480-188771/46
Matrix: Water
Analysis Batch: 188771

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	4.0	mg/L			06/19/14 11:04	1

Lab Sample ID: MB 480-188771/58
Matrix: Water
Analysis Batch: 188771

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	4.0	mg/L			06/19/14 11:22	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-188771/27
Matrix: Water
Analysis Batch: 188771

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	45.3		mg/L		91	90 - 110

Lab Sample ID: LCS 480-188771/45
Matrix: Water
Analysis Batch: 188771

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	52.7		mg/L		105	90 - 110

Lab Sample ID: LCS 480-188771/57
Matrix: Water
Analysis Batch: 188771

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	51.1		mg/L		102	90 - 110

Lab Sample ID: MB 480-189017/67
Matrix: Water
Analysis Batch: 189017

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	4.0	mg/L			06/20/14 12:17	1

Lab Sample ID: MB 480-189017/92
Matrix: Water
Analysis Batch: 189017

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	4.0	mg/L			06/20/14 12:51	1

Lab Sample ID: LCS 480-189017/66
Matrix: Water
Analysis Batch: 189017

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	49.2		mg/L		98	90 - 110

Lab Sample ID: LCS 480-189017/91
Matrix: Water
Analysis Batch: 189017

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	51.4		mg/L		103	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-188210/147
Matrix: Water
Analysis Batch: 188210

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			06/17/14 12:31	1

Lab Sample ID: MB 480-188210/171
Matrix: Water
Analysis Batch: 188210

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			06/17/14 12:52	1

Lab Sample ID: MB 480-188210/51
Matrix: Water
Analysis Batch: 188210

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			06/17/14 11:07	1

Lab Sample ID: LCS 480-188210/148
Matrix: Water
Analysis Batch: 188210

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: LCS 480-188210/172
Matrix: Water
Analysis Batch: 188210

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: LCS 480-188210/52
Matrix: Water
Analysis Batch: 188210

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.04		mg/L		104	90 - 110

Lab Sample ID: MB 480-188240/27
Matrix: Water
Analysis Batch: 188240

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			06/17/14 14:01	1

Lab Sample ID: MB 480-188240/75
Matrix: Water
Analysis Batch: 188240

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			06/17/14 14:49	1

Lab Sample ID: LCS 480-188240/28
Matrix: Water
Analysis Batch: 188240

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: LCS 480-188240/76
Matrix: Water
Analysis Batch: 188240

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

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: MB 480-189620/15
Matrix: Water
Analysis Batch: 189620

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			06/24/14 18:28	1

Lab Sample ID: LCS 480-189620/16
Matrix: Water
Analysis Batch: 189620

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-188543/1-A
Matrix: Water
Analysis Batch: 188683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		06/18/14 19:32	06/19/14 09:26	1

Lab Sample ID: LCS 480-188543/2-A
Matrix: Water
Analysis Batch: 188683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.34		mg/L		94	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-188035/27
Matrix: Water
Analysis Batch: 188035

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	5.0	mg/L			06/16/14 17:30	1

Method: 410.4 - COD (Continued)

Lab Sample ID: MB 480-188035/3
Matrix: Water
Analysis Batch: 188035

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	5.0	mg/L			06/16/14 17:30	1

Lab Sample ID: LCS 480-188035/28
Matrix: Water
Analysis Batch: 188035

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	24.0		mg/L		96	90 - 110

Lab Sample ID: LCS 480-188035/4
Matrix: Water
Analysis Batch: 188035

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	24.9		mg/L		100	90 - 110

Lab Sample ID: 480-61861-4 MS
Matrix: Water
Analysis Batch: 188035

Client Sample ID: SW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	9.0	J	50.0	59.4		mg/L		101	75 - 125

Lab Sample ID: 480-61861-5 DU
Matrix: Water
Analysis Batch: 188035

Client Sample ID: SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	10		6.08	J	mg/L		49	20

Lab Sample ID: MB 480-188711/27
Matrix: Water
Analysis Batch: 188711

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	5.0	mg/L			06/19/14 10:17	1

Lab Sample ID: MB 480-188711/3
Matrix: Water
Analysis Batch: 188711

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	5.0	mg/L			06/19/14 09:56	1

Lab Sample ID: LCS 480-188711/28
Matrix: Water
Analysis Batch: 188711

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	26.9		mg/L		108	90 - 110

Lab Sample ID: LCS 480-188711/4
Matrix: Water
Analysis Batch: 188711

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	25.6		mg/L		102	90 - 110

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-187532/27
Matrix: Water
Analysis Batch: 187532

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			06/13/14 10:36	1

Lab Sample ID: MB 480-187532/3
Matrix: Water
Analysis Batch: 187532

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			06/13/14 08:44	1

Lab Sample ID: LCS 480-187532/28
Matrix: Water
Analysis Batch: 187532

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0500	0.0454		mg/L		91	85 - 115

Lab Sample ID: LCS 480-187532/4
Matrix: Water
Analysis Batch: 187532

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

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: 480-61861-4 MS
Matrix: Water
Analysis Batch: 187532

Client Sample ID: SW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND		0.0500	0.0511		mg/L		102	85 - 115

Lab Sample ID: 480-61861-4 DU
Matrix: Water
Analysis Batch: 187532

Client Sample ID: SW-02
Prep Type: Total/NA

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

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-188827/1-A
Matrix: Water
Analysis Batch: 188961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/19/14 17:30	06/20/14 10:20	1

Lab Sample ID: LCS 480-188827/2-A
Matrix: Water
Analysis Batch: 188961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.244		mg/L		98	90 - 110

Lab Sample ID: MB 480-189045/1-A
Matrix: Water
Analysis Batch: 189315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 189045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/20/14 15:55	06/23/14 08:12	1

Lab Sample ID: LCS 480-189045/2-A
Matrix: Water
Analysis Batch: 189315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 189045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.372		mg/L		93	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-188308/15
Matrix: Water
Analysis Batch: 188308

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			06/17/14 04:48	1

Lab Sample ID: MB 480-188308/39
Matrix: Water
Analysis Batch: 188308

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			06/17/14 16:13	1

Lab Sample ID: LCS 480-188308/16
Matrix: Water
Analysis Batch: 188308

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	62.8		mg/L		105	90 - 110

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 480-188308/40
Matrix: Water
Analysis Batch: 188308

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	62.1		mg/L		104	90 - 110

Lab Sample ID: 480-61861-3 MS
Matrix: Water
Analysis Batch: 188308

Client Sample ID: GW-B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	46		20.0	60.8		mg/L		76	54 - 131

Lab Sample ID: 480-61861-2 DU
Matrix: Water
Analysis Batch: 188308

Client Sample ID: GW-A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	6.9		6.95		mg/L		1	20

Lab Sample ID: 480-61861-8 DU
Matrix: Water
Analysis Batch: 188308

Client Sample ID: GW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	5.9		5.92		mg/L		0.4	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-189398/1-A
Matrix: Water
Analysis Batch: 189543

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 189398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/23/14 17:30	06/24/14 11:25	1

Lab Sample ID: LCS 480-189398/2-A
Matrix: Water
Analysis Batch: 189543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 189398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.105		mg/L		105	90 - 110

Lab Sample ID: MB 480-189401/1-A
Matrix: Water
Analysis Batch: 189543

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 189401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/23/14 20:30	06/24/14 11:20	1

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 480-189401/2-A
Matrix: Water
Analysis Batch: 189543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 189401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.100		mg/L		100	90 - 110

Lab Sample ID: 480-61861-5 DU
Matrix: Water
Analysis Batch: 189543

Client Sample ID: SW-01
Prep Type: Total/NA
Prep Batch: 189401

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

Lab Sample ID: MB 480-189825/1-A
Matrix: Water
Analysis Batch: 190040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 189825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/25/14 12:19	06/26/14 08:51	1

Lab Sample ID: LCS 480-189825/2-A
Matrix: Water
Analysis Batch: 190040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 189825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0974		mg/L		97	90 - 110

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 480-187631/27
Matrix: Water
Analysis Batch: 187631

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.0	5.0	Color Units			06/13/14 11:17	1

Lab Sample ID: MB 480-187631/3
Matrix: Water
Analysis Batch: 187631

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.0	5.0	Color Units			06/13/14 11:17	1

Lab Sample ID: LCS 480-187631/28
Matrix: Water
Analysis Batch: 187631

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

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

Method: SM 2120B - Color, Colorimetric (Continued)

Lab Sample ID: LCS 480-187631/4
Matrix: Water
Analysis Batch: 187631

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

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

Lab Sample ID: 480-61861-7 DU
Matrix: Water
Analysis Batch: 187631

Client Sample ID: GW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Color	25		25.0		Color Units		0	20

Method: SM 2340C - Hardness, Total

Lab Sample ID: MB 480-189609/27
Matrix: Water
Analysis Batch: 189609

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND		2.0	0.53	mg/L			06/24/14 10:50	1

Lab Sample ID: MB 480-189609/3
Matrix: Water
Analysis Batch: 189609

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND		2.0	0.53	mg/L			06/24/14 09:26	1

Lab Sample ID: LCS 480-189609/28
Matrix: Water
Analysis Batch: 189609

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness	298	288		mg/L		97	90 - 110

Lab Sample ID: LCS 480-189609/4
Matrix: Water
Analysis Batch: 189609

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness	298	292		mg/L		98	90 - 110

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

Lab Sample ID: MB 480-188045/1
Matrix: Water
Analysis Batch: 188045

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.0	mg/L			06/16/14 22:59	1

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

Lab Sample ID: LCS 480-188045/2
Matrix: Water
Analysis Batch: 188045

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	503	488		mg/L		97	85 - 115

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-187695/1
Matrix: Water
Analysis Batch: 187695

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			06/13/14 17:39	1

Lab Sample ID: LCS 480-187695/2
Matrix: Water
Analysis Batch: 187695

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	208		mg/L		105	85 - 115

QC Association Summary

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

TestAmerica Job ID: 480-61861-1

GC/MS VOA

Analysis Batch: 188163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	624	
480-61861-3	GW-B	Total/NA	Water	624	
480-61861-4	SW-02	Total/NA	Water	624	
480-61861-5	SW-01	Total/NA	Water	624	
480-61861-6	GW-3	Total/NA	Water	624	
480-61861-7	GW-1	Total/NA	Water	624	
480-61861-8	GW-2	Total/NA	Water	624	
480-61861-9	TRIP BLANK	Total/NA	Water	624	
LCS 480-188163/5	Lab Control Sample	Total/NA	Water	624	
MB 480-188163/7	Method Blank	Total/NA	Water	624	

Metals

Prep Batch: 187751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	3005A	
480-61861-3	GW-B	Total/NA	Water	3005A	
480-61861-4	SW-02	Total/NA	Water	3005A	
480-61861-5	SW-01	Total/NA	Water	3005A	
480-61861-6	GW-3	Total/NA	Water	3005A	
480-61861-7	GW-1	Total/NA	Water	3005A	
480-61861-8	GW-2	Total/NA	Water	3005A	
LCS 480-187751/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-187751/1-A	Method Blank	Total/NA	Water	3005A	

Filtration Batch: 187770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Dissolved	Water	FILTRATION	
480-61861-3	GW-B	Dissolved	Water	FILTRATION	
480-61861-4	SW-02	Dissolved	Water	FILTRATION	
480-61861-5	SW-01	Dissolved	Water	FILTRATION	
480-61861-6	GW-3	Dissolved	Water	FILTRATION	
480-61861-7	GW-1	Dissolved	Water	FILTRATION	
480-61861-8	GW-2	Dissolved	Water	FILTRATION	
LCS 480-187770/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 480-187770/3-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
MB 480-187770/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 187888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Dissolved	Water	3005A	187770
480-61861-3	GW-B	Dissolved	Water	3005A	187770
480-61861-4	SW-02	Dissolved	Water	3005A	187770
480-61861-5	SW-01	Dissolved	Water	3005A	187770
480-61861-6	GW-3	Dissolved	Water	3005A	187770
480-61861-7	GW-1	Dissolved	Water	3005A	187770
480-61861-8	GW-2	Dissolved	Water	3005A	187770
LCS 480-187770/2-B	Lab Control Sample	Dissolved	Water	3005A	187770
LCSD 480-187770/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	187770
MB 480-187770/1-B	Method Blank	Dissolved	Water	3005A	187770

Metals (Continued)

Prep Batch: 187990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	7470A	
480-61861-3	GW-B	Total/NA	Water	7470A	
480-61861-4	SW-02	Total/NA	Water	7470A	
480-61861-5	SW-01	Total/NA	Water	7470A	
480-61861-6	GW-3	Total/NA	Water	7470A	
LCS 480-187990/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-187990/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 187992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Dissolved	Water	7470A	187770
LCS 480-187992/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-187992/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 188082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-3	GW-B	Dissolved	Water	7470A	187770
480-61861-4	SW-02	Dissolved	Water	7470A	187770
480-61861-5	SW-01	Dissolved	Water	7470A	187770
480-61861-6	GW-3	Dissolved	Water	7470A	187770
480-61861-7	GW-1	Dissolved	Water	7470A	187770
480-61861-8	GW-2	Dissolved	Water	7470A	187770
LCS 480-188082/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-188082/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 188119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-7	GW-1	Total/NA	Water	7470A	
480-61861-8	GW-2	Total/NA	Water	7470A	
480-61861-8 MS	GW-2	Total/NA	Water	7470A	
480-61861-8 MSD	GW-2	Total/NA	Water	7470A	
LCS 480-188119/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-188119/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 188161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	7470A	187990
480-61861-3	GW-B	Total/NA	Water	7470A	187990
480-61861-4	SW-02	Total/NA	Water	7470A	187990
480-61861-5	SW-01	Total/NA	Water	7470A	187990
480-61861-6	GW-3	Total/NA	Water	7470A	187990
LCS 480-187990/2-A	Lab Control Sample	Total/NA	Water	7470A	187990
MB 480-187990/1-A	Method Blank	Total/NA	Water	7470A	187990

Analysis Batch: 188305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Dissolved	Water	7470A	187992
480-61861-3	GW-B	Dissolved	Water	7470A	188082
480-61861-4	SW-02	Dissolved	Water	7470A	188082
480-61861-5	SW-01	Dissolved	Water	7470A	188082
480-61861-6	GW-3	Dissolved	Water	7470A	188082

Metals (Continued)

Analysis Batch: 188305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-7	GW-1	Dissolved	Water	7470A	188082
480-61861-7	GW-1	Total/NA	Water	7470A	188119
480-61861-8	GW-2	Dissolved	Water	7470A	188082
480-61861-8	GW-2	Total/NA	Water	7470A	188119
480-61861-8 MS	GW-2	Total/NA	Water	7470A	188119
480-61861-8 MSD	GW-2	Total/NA	Water	7470A	188119
LCS 480-187992/2-A	Lab Control Sample	Total/NA	Water	7470A	187992
LCS 480-188082/2-A	Lab Control Sample	Total/NA	Water	7470A	188082
LCS 480-188119/2-A	Lab Control Sample	Total/NA	Water	7470A	188119
MB 480-187992/1-A	Method Blank	Total/NA	Water	7470A	187992
MB 480-188082/1-A	Method Blank	Total/NA	Water	7470A	188082
MB 480-188119/1-A	Method Blank	Total/NA	Water	7470A	188119

Analysis Batch: 188615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	6010C	187751
480-61861-3	GW-B	Total/NA	Water	6010C	187751
480-61861-4	SW-02	Total/NA	Water	6010C	187751
480-61861-5	SW-01	Total/NA	Water	6010C	187751
480-61861-6	GW-3	Total/NA	Water	6010C	187751
480-61861-7	GW-1	Total/NA	Water	6010C	187751
480-61861-8	GW-2	Total/NA	Water	6010C	187751
LCS 480-187751/2-A	Lab Control Sample	Total/NA	Water	6010C	187751
MB 480-187751/1-A	Method Blank	Total/NA	Water	6010C	187751

Analysis Batch: 189205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Dissolved	Water	6010C	187888
480-61861-3	GW-B	Dissolved	Water	6010C	187888
480-61861-4	SW-02	Dissolved	Water	6010C	187888
480-61861-5	SW-01	Dissolved	Water	6010C	187888
480-61861-6	GW-3	Dissolved	Water	6010C	187888
480-61861-7	GW-1	Dissolved	Water	6010C	187888
480-61861-8	GW-2	Dissolved	Water	6010C	187888
LCS 480-187770/2-B	Lab Control Sample	Dissolved	Water	6010C	187888
LCSD 480-187770/3-B	Lab Control Sample Dup	Dissolved	Water	6010C	187888
MB 480-187770/1-B	Method Blank	Dissolved	Water	6010C	187888

General Chemistry

Analysis Batch: 187532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	7196A	
480-61861-3	GW-B	Total/NA	Water	7196A	
480-61861-4	SW-02	Total/NA	Water	7196A	
480-61861-4 DU	SW-02	Total/NA	Water	7196A	
480-61861-4 MS	SW-02	Total/NA	Water	7196A	
480-61861-5	SW-01	Total/NA	Water	7196A	
480-61861-6	GW-3	Total/NA	Water	7196A	
480-61861-7	GW-1	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 187532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-8	GW-2	Total/NA	Water	7196A	
LCS 480-187532/28	Lab Control Sample	Total/NA	Water	7196A	
LCS 480-187532/4	Lab Control Sample	Total/NA	Water	7196A	
MB 480-187532/27	Method Blank	Total/NA	Water	7196A	
MB 480-187532/3	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 187550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	180.1	
480-61861-3	GW-B	Total/NA	Water	180.1	
480-61861-4	SW-02	Total/NA	Water	180.1	
480-61861-5	SW-01	Total/NA	Water	180.1	
480-61861-5 DU	SW-01	Total/NA	Water	180.1	
480-61861-6	GW-3	Total/NA	Water	180.1	
480-61861-7	GW-1	Total/NA	Water	180.1	
480-61861-8	GW-2	Total/NA	Water	180.1	
LCS 480-187550/28	Lab Control Sample	Total/NA	Water	180.1	
MB 480-187550/27	Method Blank	Total/NA	Water	180.1	

Analysis Batch: 187631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	SM 2120B	
480-61861-3	GW-B	Total/NA	Water	SM 2120B	
480-61861-4	SW-02	Total/NA	Water	SM 2120B	
480-61861-5	SW-01	Total/NA	Water	SM 2120B	
480-61861-6	GW-3	Total/NA	Water	SM 2120B	
480-61861-7	GW-1	Total/NA	Water	SM 2120B	
480-61861-7 DU	GW-1	Total/NA	Water	SM 2120B	
480-61861-8	GW-2	Total/NA	Water	SM 2120B	
LCS 480-187631/28	Lab Control Sample	Total/NA	Water	SM 2120B	
LCS 480-187631/4	Lab Control Sample	Total/NA	Water	SM 2120B	
MB 480-187631/27	Method Blank	Total/NA	Water	SM 2120B	
MB 480-187631/3	Method Blank	Total/NA	Water	SM 2120B	

Analysis Batch: 187693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	353.2	
480-61861-3	GW-B	Total/NA	Water	353.2	
480-61861-4	SW-02	Total/NA	Water	353.2	
480-61861-5	SW-01	Total/NA	Water	353.2	
480-61861-6	GW-3	Total/NA	Water	353.2	
480-61861-7	GW-1	Total/NA	Water	353.2	
480-61861-8	GW-2	Total/NA	Water	353.2	

Analysis Batch: 187695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	SM 5210B	
480-61861-3	GW-B	Total/NA	Water	SM 5210B	
480-61861-4	SW-02	Total/NA	Water	SM 5210B	
480-61861-5	SW-01	Total/NA	Water	SM 5210B	
480-61861-6	GW-3	Total/NA	Water	SM 5210B	

General Chemistry (Continued)

Analysis Batch: 187695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-7	GW-1	Total/NA	Water	SM 5210B	
480-61861-8	GW-2	Total/NA	Water	SM 5210B	
LCS 480-187695/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 480-187695/1	Method Blank	Total/NA	Water	SM 5210B	

Analysis Batch: 188035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	410.4	
480-61861-3	GW-B	Total/NA	Water	410.4	
480-61861-4	SW-02	Total/NA	Water	410.4	
480-61861-4 MS	SW-02	Total/NA	Water	410.4	
480-61861-5	SW-01	Total/NA	Water	410.4	
480-61861-5 DU	SW-01	Total/NA	Water	410.4	
480-61861-6	GW-3	Total/NA	Water	410.4	
LCS 480-188035/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-188035/4	Lab Control Sample	Total/NA	Water	410.4	
MB 480-188035/27	Method Blank	Total/NA	Water	410.4	
MB 480-188035/3	Method Blank	Total/NA	Water	410.4	

Analysis Batch: 188045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	SM 2540C	
480-61861-3	GW-B	Total/NA	Water	SM 2540C	
480-61861-4	SW-02	Total/NA	Water	SM 2540C	
480-61861-5	SW-01	Total/NA	Water	SM 2540C	
480-61861-6	GW-3	Total/NA	Water	SM 2540C	
480-61861-7	GW-1	Total/NA	Water	SM 2540C	
480-61861-8	GW-2	Total/NA	Water	SM 2540C	
LCS 480-188045/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 480-188045/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 188210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	350.1	
480-61861-4	SW-02	Total/NA	Water	350.1	
480-61861-5	SW-01	Total/NA	Water	350.1	
LCS 480-188210/148	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-188210/172	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-188210/52	Lab Control Sample	Total/NA	Water	350.1	
MB 480-188210/147	Method Blank	Total/NA	Water	350.1	
MB 480-188210/171	Method Blank	Total/NA	Water	350.1	
MB 480-188210/51	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 188240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-6	GW-3	Total/NA	Water	350.1	
480-61861-7	GW-1	Total/NA	Water	350.1	
480-61861-8	GW-2	Total/NA	Water	350.1	
LCS 480-188240/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-188240/76	Lab Control Sample	Total/NA	Water	350.1	
MB 480-188240/27	Method Blank	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 188240 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-188240/75	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 188308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	9060A	
480-61861-2 DU	GW-A	Total/NA	Water	9060A	
480-61861-3	GW-B	Total/NA	Water	9060A	
480-61861-3 MS	GW-B	Total/NA	Water	9060A	
480-61861-4	SW-02	Total/NA	Water	9060A	
480-61861-5	SW-01	Total/NA	Water	9060A	
480-61861-6	GW-3	Total/NA	Water	9060A	
480-61861-7	GW-1	Total/NA	Water	9060A	
480-61861-8	GW-2	Total/NA	Water	9060A	
480-61861-8 DU	GW-2	Total/NA	Water	9060A	
LCS 480-188308/16	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-188308/40	Lab Control Sample	Total/NA	Water	9060A	
MB 480-188308/15	Method Blank	Total/NA	Water	9060A	
MB 480-188308/39	Method Blank	Total/NA	Water	9060A	

Prep Batch: 188543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	351.2	
480-61861-3	GW-B	Total/NA	Water	351.2	
480-61861-4	SW-02	Total/NA	Water	351.2	
480-61861-5	SW-01	Total/NA	Water	351.2	
480-61861-6	GW-3	Total/NA	Water	351.2	
480-61861-7	GW-1	Total/NA	Water	351.2	
480-61861-8	GW-2	Total/NA	Water	351.2	
LCS 480-188543/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-188543/1-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 188683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	351.2	188543
480-61861-3	GW-B	Total/NA	Water	351.2	188543
480-61861-4	SW-02	Total/NA	Water	351.2	188543
480-61861-5	SW-01	Total/NA	Water	351.2	188543
480-61861-6	GW-3	Total/NA	Water	351.2	188543
480-61861-7	GW-1	Total/NA	Water	351.2	188543
480-61861-8	GW-2	Total/NA	Water	351.2	188543
LCS 480-188543/2-A	Lab Control Sample	Total/NA	Water	351.2	188543
MB 480-188543/1-A	Method Blank	Total/NA	Water	351.2	188543

Analysis Batch: 188711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-7	GW-1	Total/NA	Water	410.4	
480-61861-8	GW-2	Total/NA	Water	410.4	
LCS 480-188711/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-188711/4	Lab Control Sample	Total/NA	Water	410.4	
MB 480-188711/27	Method Blank	Total/NA	Water	410.4	
MB 480-188711/3	Method Blank	Total/NA	Water	410.4	

QC Association Summary

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

TestAmerica Job ID: 480-61861-1

General Chemistry (Continued)

Analysis Batch: 188730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	300.0	
480-61861-3	GW-B	Total/NA	Water	300.0	
480-61861-4	SW-02	Total/NA	Water	300.0	
480-61861-5	SW-01	Total/NA	Water	300.0	
480-61861-6	GW-3	Total/NA	Water	300.0	
480-61861-7	GW-1	Total/NA	Water	300.0	
480-61861-8	GW-2	Total/NA	Water	300.0	
LCS 480-188730/99	Lab Control Sample	Total/NA	Water	300.0	
MB 480-188730/100	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 188771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-7	GW-1	Total/NA	Water	310.2	
LCS 480-188771/27	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-188771/45	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-188771/57	Lab Control Sample	Total/NA	Water	310.2	
MB 480-188771/28	Method Blank	Total/NA	Water	310.2	
MB 480-188771/46	Method Blank	Total/NA	Water	310.2	
MB 480-188771/58	Method Blank	Total/NA	Water	310.2	

Prep Batch: 188827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	9012B	
480-61861-5	SW-01	Total/NA	Water	9012B	
480-61861-6	GW-3	Total/NA	Water	9012B	
480-61861-8	GW-2	Total/NA	Water	9012B	
LCS 480-188827/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 480-188827/1-A	Method Blank	Total/NA	Water	9012B	

Analysis Batch: 188961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	9012B	188827
480-61861-5	SW-01	Total/NA	Water	9012B	188827
480-61861-6	GW-3	Total/NA	Water	9012B	188827
480-61861-8	GW-2	Total/NA	Water	9012B	188827
LCS 480-188827/2-A	Lab Control Sample	Total/NA	Water	9012B	188827
MB 480-188827/1-A	Method Blank	Total/NA	Water	9012B	188827

Analysis Batch: 189017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	310.2	
480-61861-3	GW-B	Total/NA	Water	310.2	
480-61861-4	SW-02	Total/NA	Water	310.2	
480-61861-5	SW-01	Total/NA	Water	310.2	
480-61861-6	GW-3	Total/NA	Water	310.2	
480-61861-8	GW-2	Total/NA	Water	310.2	
LCS 480-189017/66	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-189017/91	Lab Control Sample	Total/NA	Water	310.2	
MB 480-189017/67	Method Blank	Total/NA	Water	310.2	
MB 480-189017/92	Method Blank	Total/NA	Water	310.2	

General Chemistry (Continued)

Prep Batch: 189045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-3	GW-B	Total/NA	Water	9012B	
480-61861-4	SW-02	Total/NA	Water	9012B	
480-61861-7	GW-1	Total/NA	Water	9012B	
LCS 480-189045/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 480-189045/1-A	Method Blank	Total/NA	Water	9012B	

Analysis Batch: 189315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-3	GW-B	Total/NA	Water	9012B	189045
480-61861-4	SW-02	Total/NA	Water	9012B	189045
480-61861-7	GW-1	Total/NA	Water	9012B	189045
LCS 480-189045/2-A	Lab Control Sample	Total/NA	Water	9012B	189045
MB 480-189045/1-A	Method Blank	Total/NA	Water	9012B	189045

Prep Batch: 189398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	Distill/Phenol	
480-61861-3	GW-B	Total/NA	Water	Distill/Phenol	
480-61861-4	SW-02	Total/NA	Water	Distill/Phenol	
LCS 480-189398/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-189398/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

Prep Batch: 189401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-5	SW-01	Total/NA	Water	Distill/Phenol	
480-61861-5 DU	SW-01	Total/NA	Water	Distill/Phenol	
480-61861-7	GW-1	Total/NA	Water	Distill/Phenol	
480-61861-8	GW-2	Total/NA	Water	Distill/Phenol	
LCS 480-189401/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-189401/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

Analysis Batch: 189543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	9066	189398
480-61861-3	GW-B	Total/NA	Water	9066	189398
480-61861-4	SW-02	Total/NA	Water	9066	189398
480-61861-5	SW-01	Total/NA	Water	9066	189401
480-61861-5 DU	SW-01	Total/NA	Water	9066	189401
480-61861-7	GW-1	Total/NA	Water	9066	189401
480-61861-8	GW-2	Total/NA	Water	9066	189401
LCS 480-189398/2-A	Lab Control Sample	Total/NA	Water	9066	189398
LCS 480-189401/2-A	Lab Control Sample	Total/NA	Water	9066	189401
MB 480-189398/1-A	Method Blank	Total/NA	Water	9066	189398
MB 480-189401/1-A	Method Blank	Total/NA	Water	9066	189401

Analysis Batch: 189609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-2	GW-A	Total/NA	Water	SM 2340C	
480-61861-3	GW-B	Total/NA	Water	SM 2340C	
480-61861-4	SW-02	Total/NA	Water	SM 2340C	
480-61861-5	SW-01	Total/NA	Water	SM 2340C	

QC Association Summary

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

TestAmerica Job ID: 480-61861-1

General Chemistry (Continued)

Analysis Batch: 189609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-6	GW-3	Total/NA	Water	SM 2340C	
480-61861-7	GW-1	Total/NA	Water	SM 2340C	
480-61861-8	GW-2	Total/NA	Water	SM 2340C	
LCS 480-189609/28	Lab Control Sample	Total/NA	Water	SM 2340C	
LCS 480-189609/4	Lab Control Sample	Total/NA	Water	SM 2340C	
MB 480-189609/27	Method Blank	Total/NA	Water	SM 2340C	
MB 480-189609/3	Method Blank	Total/NA	Water	SM 2340C	

Analysis Batch: 189620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-3	GW-B	Total/NA	Water	350.1	
LCS 480-189620/16	Lab Control Sample	Total/NA	Water	350.1	
MB 480-189620/15	Method Blank	Total/NA	Water	350.1	

Prep Batch: 189825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-6	GW-3	Total/NA	Water	Distill/Phenol	
LCS 480-189825/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-189825/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

Analysis Batch: 190040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61861-6	GW-3	Total/NA	Water	9066	189825
LCS 480-189825/2-A	Lab Control Sample	Total/NA	Water	9066	189825
MB 480-189825/1-A	Method Blank	Total/NA	Water	9066	189825

Client Sample ID: GW-A

Lab Sample ID: 480-61861-2
Matrix: Water

Date Collected: 06/12/14 14:00
Date Received: 06/13/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	188163	06/18/14 05:07	RAS	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	3005A			187888	06/16/14 12:05	EHD	TAL BUF
Dissolved	Analysis	6010C		1	189205	06/20/14 14:31	MTM2	TAL BUF
Total/NA	Prep	3005A			187751	06/16/14 08:00	ZL	TAL BUF
Total/NA	Analysis	6010C		1	188615	06/18/14 22:05	MTM2	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	7470A			187992	06/17/14 10:15	LRK	TAL BUF
Dissolved	Analysis	7470A		1	188305	06/17/14 14:02	LRK	TAL BUF
Total/NA	Prep	7470A			187990	06/16/14 14:30	LRK	TAL BUF
Total/NA	Analysis	7470A		1	188161	06/17/14 10:03	LRK	TAL BUF
Total/NA	Analysis	180.1		1	187550	06/13/14 08:37	VAJ	TAL BUF
Total/NA	Analysis	300.0		1	188730	06/20/14 11:22	KRC	TAL BUF
Total/NA	Analysis	310.2		5	189017	06/20/14 12:52	JTS	TAL BUF
Total/NA	Analysis	350.1		1	188210	06/17/14 12:47	KMF	TAL BUF
Total/NA	Prep	351.2			188543	06/18/14 19:32	CLT	TAL BUF
Total/NA	Analysis	351.2		1	188683	06/19/14 10:12	NCH	TAL BUF
Total/NA	Analysis	353.2		1	187693	06/13/14 16:24	CLT	TAL BUF
Total/NA	Analysis	410.4		1	188035	06/16/14 17:30	JMB	TAL BUF
Total/NA	Analysis	7196A		1	187532	06/13/14 09:59	KJ1	TAL BUF
Total/NA	Prep	9012B			188827	06/19/14 17:30	JMB	TAL BUF
Total/NA	Analysis	9012B		1	188961	06/20/14 10:32	JTS	TAL BUF
Total/NA	Analysis	9060A		1	188308	06/17/14 13:22	KRC	TAL BUF
Total/NA	Prep	Distill/Phenol			189398	06/23/14 17:30	CLT	TAL BUF
Total/NA	Analysis	9066		1	189543	06/24/14 11:20	NCH	TAL BUF
Total/NA	Analysis	SM 2120B		1	187631	06/13/14 11:17	VAJ	TAL BUF
Total/NA	Analysis	SM 2340C		1	189609	06/24/14 10:32	KMF	TAL BUF
Total/NA	Analysis	SM 2540C		1	188045	06/16/14 23:16	KS	TAL BUF
Total/NA	Analysis	SM 5210B		1	187695	06/13/14 17:39	CLT	TAL BUF

Client Sample ID: GW-B

Lab Sample ID: 480-61861-3
Matrix: Water

Date Collected: 06/12/14 14:45
Date Received: 06/13/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	188163	06/18/14 05:31	RAS	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	3005A			187888	06/16/14 12:05	EHD	TAL BUF
Dissolved	Analysis	6010C		1	189205	06/20/14 14:34	MTM2	TAL BUF
Total/NA	Prep	3005A			187751	06/16/14 08:00	ZL	TAL BUF
Total/NA	Analysis	6010C		1	188615	06/18/14 22:10	MTM2	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF

Client Sample ID: GW-B

Lab Sample ID: 480-61861-3
Matrix: Water

Date Collected: 06/12/14 14:45
Date Received: 06/13/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			188082	06/17/14 10:15	LRK	TAL BUF
Dissolved	Analysis	7470A		1	188305	06/17/14 14:55	LRK	TAL BUF
Total/NA	Prep	7470A			187990	06/16/14 14:30	LRK	TAL BUF
Total/NA	Analysis	7470A		1	188161	06/17/14 10:11	LRK	TAL BUF
Total/NA	Analysis	180.1		1	187550	06/13/14 10:32	VAJ	TAL BUF
Total/NA	Analysis	300.0		1	188730	06/20/14 11:32	KRC	TAL BUF
Total/NA	Analysis	310.2		10	189017	06/20/14 12:30	JTS	TAL BUF
Total/NA	Analysis	350.1		1	189620	06/24/14 18:38	RS	TAL BUF
Total/NA	Prep	351.2			188543	06/18/14 19:32	CLT	TAL BUF
Total/NA	Analysis	351.2		1	188683	06/19/14 10:12	NCH	TAL BUF
Total/NA	Analysis	353.2		1	187693	06/13/14 16:27	CLT	TAL BUF
Total/NA	Analysis	410.4		1	188035	06/16/14 17:30	JMB	TAL BUF
Total/NA	Analysis	7196A		1	187532	06/13/14 10:03	KJ1	TAL BUF
Total/NA	Prep	9012B			189045	06/20/14 15:55	JMB	TAL BUF
Total/NA	Analysis	9012B		1	189315	06/23/14 08:24	JTS	TAL BUF
Total/NA	Analysis	9060A		1	188308	06/17/14 14:19	KRC	TAL BUF
Total/NA	Prep	Distill/Phenol			189398	06/23/14 17:30	CLT	TAL BUF
Total/NA	Analysis	9066		1	189543	06/24/14 11:14	NCH	TAL BUF
Total/NA	Analysis	SM 2120B		2	187631	06/13/14 11:17	VAJ	TAL BUF
Total/NA	Analysis	SM 2340C		1	189609	06/24/14 10:29	KMF	TAL BUF
Total/NA	Analysis	SM 2540C		1	188045	06/16/14 23:18	KS	TAL BUF
Total/NA	Analysis	SM 5210B		1	187695	06/13/14 17:39	CLT	TAL BUF

Client Sample ID: SW-02

Lab Sample ID: 480-61861-4
Matrix: Water

Date Collected: 06/12/14 14:30
Date Received: 06/13/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	188163	06/18/14 05:55	RAS	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	3005A			187888	06/16/14 12:05	EHD	TAL BUF
Dissolved	Analysis	6010C		1	189205	06/20/14 14:37	MTM2	TAL BUF
Total/NA	Prep	3005A			187751	06/16/14 08:00	ZL	TAL BUF
Total/NA	Analysis	6010C		1	188615	06/18/14 22:08	MTM2	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	7470A			188082	06/17/14 10:15	LRK	TAL BUF
Dissolved	Analysis	7470A		1	188305	06/17/14 14:28	LRK	TAL BUF
Total/NA	Prep	7470A			187990	06/16/14 14:30	LRK	TAL BUF
Total/NA	Analysis	7470A		1	188161	06/17/14 10:09	LRK	TAL BUF
Total/NA	Analysis	180.1		1	187550	06/13/14 10:32	VAJ	TAL BUF
Total/NA	Analysis	300.0		1	188730	06/20/14 11:43	KRC	TAL BUF
Total/NA	Analysis	310.2		5	189017	06/20/14 12:52	JTS	TAL BUF

Client Sample ID: SW-02

Lab Sample ID: 480-61861-4
Matrix: Water

Date Collected: 06/12/14 14:30
Date Received: 06/13/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	188210	06/17/14 12:54	KMF	TAL BUF
Total/NA	Prep	351.2			188543	06/18/14 19:32	CLT	TAL BUF
Total/NA	Analysis	351.2		1	188683	06/19/14 10:12	NCH	TAL BUF
Total/NA	Analysis	353.2		1	187693	06/13/14 17:05	CLT	TAL BUF
Total/NA	Analysis	410.4		1	188035	06/16/14 17:30	JMB	TAL BUF
Total/NA	Analysis	7196A		1	187532	06/13/14 10:45	KJ1	TAL BUF
Total/NA	Prep	9012B			189045	06/20/14 15:55	JMB	TAL BUF
Total/NA	Analysis	9012B		1	189315	06/23/14 08:25	JTS	TAL BUF
Total/NA	Analysis	9060A		1	188308	06/17/14 17:10	KRC	TAL BUF
Total/NA	Prep	Distill/Phenol			189398	06/23/14 17:30	CLT	TAL BUF
Total/NA	Analysis	9066		1	189543	06/24/14 11:20	NCH	TAL BUF
Total/NA	Analysis	SM 2120B		1	187631	06/13/14 11:17	VAJ	TAL BUF
Total/NA	Analysis	SM 2340C		1	189609	06/24/14 10:39	KMF	TAL BUF
Total/NA	Analysis	SM 2540C		1	188045	06/16/14 23:20	KS	TAL BUF
Total/NA	Analysis	SM 5210B		1	187695	06/13/14 17:39	CLT	TAL BUF

Client Sample ID: SW-01

Lab Sample ID: 480-61861-5
Matrix: Water

Date Collected: 06/12/14 15:12
Date Received: 06/13/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	188163	06/18/14 06:19	RAS	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	3005A			187888	06/16/14 12:05	EHD	TAL BUF
Dissolved	Analysis	6010C		1	189205	06/20/14 14:40	MTM2	TAL BUF
Total/NA	Prep	3005A			187751	06/16/14 08:00	ZL	TAL BUF
Total/NA	Analysis	6010C		1	188615	06/18/14 22:13	MTM2	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	7470A			188082	06/17/14 10:15	LRK	TAL BUF
Dissolved	Analysis	7470A		1	188305	06/17/14 14:37	LRK	TAL BUF
Total/NA	Prep	7470A			187990	06/16/14 14:30	LRK	TAL BUF
Total/NA	Analysis	7470A		1	188161	06/17/14 10:13	LRK	TAL BUF
Total/NA	Analysis	180.1		1	187550	06/13/14 10:32	VAJ	TAL BUF
Total/NA	Analysis	300.0		1	188730	06/20/14 11:53	KRC	TAL BUF
Total/NA	Analysis	310.2		5	189017	06/20/14 12:51	JTS	TAL BUF
Total/NA	Analysis	350.1		1	188210	06/17/14 12:55	KMF	TAL BUF
Total/NA	Prep	351.2			188543	06/18/14 19:32	CLT	TAL BUF
Total/NA	Analysis	351.2		1	188683	06/19/14 10:12	NCH	TAL BUF
Total/NA	Analysis	353.2		1	187693	06/13/14 16:30	CLT	TAL BUF
Total/NA	Analysis	410.4		1	188035	06/16/14 17:30	JMB	TAL BUF
Total/NA	Analysis	7196A		1	187532	06/13/14 10:08	KJ1	TAL BUF
Total/NA	Prep	9012B			188827	06/19/14 17:30	JMB	TAL BUF

Client Sample ID: SW-01

Lab Sample ID: 480-61861-5
Matrix: Water

Date Collected: 06/12/14 15:12
Date Received: 06/13/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9012B		1	188961	06/20/14 10:33	JTS	TAL BUF
Total/NA	Analysis	9060A		1	188308	06/17/14 17:39	KRC	TAL BUF
Total/NA	Prep	Distill/Phenol			189401	06/23/14 20:30	CLT	TAL BUF
Total/NA	Analysis	9066		1	189543	06/24/14 11:08	NCH	TAL BUF
Total/NA	Analysis	SM 2120B		1	187631	06/13/14 11:17	VAJ	TAL BUF
Total/NA	Analysis	SM 2340C		1	189609	06/24/14 10:57	KMF	TAL BUF
Total/NA	Analysis	SM 2540C		1	188045	06/16/14 23:22	KS	TAL BUF
Total/NA	Analysis	SM 5210B		1	187695	06/13/14 17:39	CLT	TAL BUF

Client Sample ID: GW-3

Lab Sample ID: 480-61861-6
Matrix: Water

Date Collected: 06/12/14 16:40
Date Received: 06/13/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	188163	06/18/14 06:43	RAS	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	3005A			187888	06/16/14 12:05	EHD	TAL BUF
Dissolved	Analysis	6010C		1	189205	06/20/14 14:52	MTM2	TAL BUF
Total/NA	Prep	3005A			187751	06/16/14 08:00	ZL	TAL BUF
Total/NA	Analysis	6010C		1	188615	06/18/14 22:16	MTM2	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	7470A			188082	06/17/14 10:15	LRK	TAL BUF
Dissolved	Analysis	7470A		1	188305	06/17/14 14:46	LRK	TAL BUF
Total/NA	Prep	7470A			187990	06/16/14 14:30	LRK	TAL BUF
Total/NA	Analysis	7470A		1	188161	06/17/14 10:14	LRK	TAL BUF
Total/NA	Analysis	180.1		1	187550	06/13/14 10:32	VAJ	TAL BUF
Total/NA	Analysis	300.0		1	188730	06/20/14 12:03	KRC	TAL BUF
Total/NA	Analysis	310.2		10	189017	06/20/14 12:30	JTS	TAL BUF
Total/NA	Analysis	350.1		5	188240	06/17/14 15:07	KMF	TAL BUF
Total/NA	Prep	351.2			188543	06/18/14 19:32	CLT	TAL BUF
Total/NA	Analysis	351.2		2	188683	06/19/14 10:43	NCH	TAL BUF
Total/NA	Analysis	353.2		1	187693	06/13/14 16:31	CLT	TAL BUF
Total/NA	Analysis	410.4		1	188035	06/16/14 17:30	JMB	TAL BUF
Total/NA	Analysis	7196A		1	187532	06/13/14 10:13	KJ1	TAL BUF
Total/NA	Prep	9012B			188827	06/19/14 17:30	JMB	TAL BUF
Total/NA	Analysis	9012B		1	188961	06/20/14 10:34	JTS	TAL BUF
Total/NA	Analysis	9060A		1	188308	06/17/14 18:07	KRC	TAL BUF
Total/NA	Prep	Distill/Phenol			189825	06/25/14 12:19	RP	TAL BUF
Total/NA	Analysis	9066		1	190040	06/26/14 09:50	NCH	TAL BUF
Total/NA	Analysis	SM 2120B		1	187631	06/13/14 11:17	VAJ	TAL BUF
Total/NA	Analysis	SM 2340C		1	189609	06/24/14 11:04	KMF	TAL BUF
Total/NA	Analysis	SM 2540C		1	188045	06/16/14 23:23	KS	TAL BUF

Lab Chronicle

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

TestAmerica Job ID: 480-61861-1

Client Sample ID: GW-3

Date Collected: 06/12/14 16:40
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	187695	06/13/14 17:39	CLT	TAL BUF

Client Sample ID: GW-1

Date Collected: 06/12/14 16:15
Date Received: 06/13/14 09:00

Lab Sample ID: 480-61861-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	188163	06/18/14 07:07	RAS	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	3005A			187888	06/16/14 12:05	EHD	TAL BUF
Dissolved	Analysis	6010C		1	189205	06/20/14 14:56	MTM2	TAL BUF
Total/NA	Prep	3005A			187751	06/16/14 08:00	ZL	TAL BUF
Total/NA	Analysis	6010C		1	188615	06/18/14 22:19	MTM2	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	7470A			188082	06/17/14 10:15	LRK	TAL BUF
Dissolved	Analysis	7470A		1	188305	06/17/14 14:58	LRK	TAL BUF
Total/NA	Prep	7470A			188119	06/17/14 10:15	LRK	TAL BUF
Total/NA	Analysis	7470A		1	188305	06/17/14 15:19	LRK	TAL BUF
Total/NA	Analysis	180.1		1	187550	06/13/14 10:32	VAJ	TAL BUF
Total/NA	Analysis	300.0		1	188730	06/20/14 12:13	KRC	TAL BUF
Total/NA	Analysis	310.2		10	188771	06/19/14 11:34	JTS	TAL BUF
Total/NA	Analysis	350.1		10	188240	06/17/14 15:08	KMF	TAL BUF
Total/NA	Prep	351.2			188543	06/18/14 19:32	CLT	TAL BUF
Total/NA	Analysis	351.2		10	188683	06/19/14 10:39	NCH	TAL BUF
Total/NA	Analysis	353.2		1	187693	06/13/14 16:32	CLT	TAL BUF
Total/NA	Analysis	410.4		1	188711	06/19/14 10:09	KJ1	TAL BUF
Total/NA	Analysis	7196A		1	187532	06/13/14 10:17	KJ1	TAL BUF
Total/NA	Prep	9012B			189045	06/20/14 15:55	JMB	TAL BUF
Total/NA	Analysis	9012B		1	189315	06/23/14 08:29	JTS	TAL BUF
Total/NA	Analysis	9060A		1	188308	06/17/14 18:35	KRC	TAL BUF
Total/NA	Prep	Distill/Phenol			189401	06/23/14 20:30	CLT	TAL BUF
Total/NA	Analysis	9066		1	189543	06/24/14 11:08	NCH	TAL BUF
Total/NA	Analysis	SM 2120B		1	187631	06/13/14 11:17	VAJ	TAL BUF
Total/NA	Analysis	SM 2340C		1	189609	06/24/14 09:36	KMF	TAL BUF
Total/NA	Analysis	SM 2540C		1	188045	06/16/14 23:25	KS	TAL BUF
Total/NA	Analysis	SM 5210B		1	187695	06/13/14 17:39	CLT	TAL BUF

Client Sample ID: GW-2

Lab Sample ID: 480-61861-8
Matrix: Water

Date Collected: 06/12/14 16:30
Date Received: 06/13/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	188163	06/18/14 07:30	RAS	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	3005A			187888	06/16/14 12:05	EHD	TAL BUF
Dissolved	Analysis	6010C		1	189205	06/20/14 14:59	MTM2	TAL BUF
Total/NA	Prep	3005A			187751	06/16/14 08:00	ZL	TAL BUF
Total/NA	Analysis	6010C		1	188615	06/18/14 22:22	MTM2	TAL BUF
Dissolved	Filtration	FILTRATION			187770	06/14/14 11:38	ZL	TAL BUF
Dissolved	Prep	7470A			188082	06/17/14 10:15	LRK	TAL BUF
Dissolved	Analysis	7470A		1	188305	06/17/14 14:43	LRK	TAL BUF
Total/NA	Prep	7470A			188119	06/17/14 10:15	LRK	TAL BUF
Total/NA	Analysis	7470A		1	188305	06/17/14 15:11	LRK	TAL BUF
Total/NA	Analysis	180.1		1	187550	06/13/14 10:32	VAJ	TAL BUF
Total/NA	Analysis	300.0		1	188730	06/20/14 12:23	KRC	TAL BUF
Total/NA	Analysis	310.2		10	189017	06/20/14 12:30	JTS	TAL BUF
Total/NA	Analysis	350.1		5	188240	06/17/14 15:09	KMF	TAL BUF
Total/NA	Prep	351.2			188543	06/18/14 19:32	CLT	TAL BUF
Total/NA	Analysis	351.2		5	188683	06/19/14 10:39	NCH	TAL BUF
Total/NA	Analysis	353.2		1	187693	06/13/14 16:33	CLT	TAL BUF
Total/NA	Analysis	410.4		1	188711	06/19/14 10:09	KJ1	TAL BUF
Total/NA	Analysis	7196A		1	187532	06/13/14 10:22	KJ1	TAL BUF
Total/NA	Prep	9012B			188827	06/19/14 17:30	JMB	TAL BUF
Total/NA	Analysis	9012B		1	188961	06/20/14 10:36	JTS	TAL BUF
Total/NA	Analysis	9060A		1	188308	06/17/14 19:03	KRC	TAL BUF
Total/NA	Prep	Distill/Phenol			189401	06/23/14 20:30	CLT	TAL BUF
Total/NA	Analysis	9066		1	189543	06/24/14 11:09	NCH	TAL BUF
Total/NA	Analysis	SM 2120B		1	187631	06/13/14 11:17	VAJ	TAL BUF
Total/NA	Analysis	SM 2340C		1	189609	06/24/14 11:08	KMF	TAL BUF
Total/NA	Analysis	SM 2540C		1	188045	06/16/14 23:27	KS	TAL BUF
Total/NA	Analysis	SM 5210B		1	187695	06/13/14 17:39	CLT	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-61861-9
Matrix: Water

Date Collected: 06/12/14 13:25
Date Received: 06/13/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	188163	06/18/14 07:54	RAS	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: 480-61861-1

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

* Certification renewal pending - certification considered valid.

Method Summary

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

TestAmerica Job ID: 480-61861-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
6010C	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
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9060A	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:

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",

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: 480-61861-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-61861-2	GW-A	Water	06/12/14 14:00	06/13/14 09:00
480-61861-3	GW-B	Water	06/12/14 14:45	06/13/14 09:00
480-61861-4	SW-02	Water	06/12/14 14:30	06/13/14 09:00
480-61861-5	SW-01	Water	06/12/14 15:12	06/13/14 09:00
480-61861-6	GW-3	Water	06/12/14 16:40	06/13/14 09:00
480-61861-7	GW-1	Water	06/12/14 16:15	06/13/14 09:00
480-61861-8	GW-2	Water	06/12/14 16:30	06/13/14 09:00
480-61861-9	TRIP BLANK	Water	06/12/14 13:25	06/13/14 09:00

TestAmerica Albany
25 Kraft Road
Albany, NY 12205

Chain of Custoc

480-61861 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: SDB	Lab PM: Shaffer, Lisa E	COC No: 480-50696-13527.1
Client Contact: Stephen Burton	Phone: 5184564900	E-Mail: lisa.shaffer@testamericainc.com	Page: Page 1 of 2
Company: Sterling Environmental Engineering PC			Job #:
Address: 24 Wade Road	Due Date Requested:		
City: Latham	TAT Requested (days):		
State, Zip: NY, 12110			
Phone:	PO #: Purchase Order not required		
Email: stephen.burton@sterlingenvironmental.com	WO #:		
Project Name: Orange County Landfill	Project #: 48005786		
Site: New York	SSOW#:		

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Chloride,Sulfate,Bromide	350.1, 351.2, 410.4	6010C - NY Part 360 Baseline Metals	2340C - Hardness	6010C, 7470A	9066 - Phenolics, Total Recoverable	9060A - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	9012B - Cyanide, Total	180.1, 2120B, 353.2, 353.2_Nitrite, Nitrate_Calc	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	Total Number of Containers	Special Instructions/Note:
			Preservation Code:				N	S	D	D	D	S	A	N	N	B	N	N	N		
GW-A	6/12/14	14:00	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	5	
GW-B	↓	14:45	↓	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	5	
SW-02	↓	14:30	↓	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	5	
SW-01	↓	15:12	↓	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
GW-3	↓	16:40	↓	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
GW-1	↓	16:15	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
GW-2	↓	16:30	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		

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
SDB	6/12/14 20:00	STERLING	[illegible]	6/13/14 0900	[illegible]

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.0, 3.2, 3.5 #1

TestAmerica Albany
25 Kraft Road
Albany, NY 12205

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: SDB	Lab PM: Shaffer, Lisa E	Carrier Tracking No(s):	COC No: 480-50696-13527.2
Client Contact: Stephen Burton	Phone: 518 4564900	E-Mail: lisa.shaffer@testamericainc.com		Page: Page 2 of 2
Company: Sterling Environmental Engineering PC				Job #:
Address: 24 Wade Road	Due Date Requested:			
City: Latham	TAT Requested (days):			
State, Zip: NY, 12110				
Phone:	PO #: Purchase Order not required			
Email: stephen.burton@sterlingenvironmental.com	WO #:			
Project Name: Orange County Landfill	Project #: 48005786			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A - Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N	N		
GW-A	6/12/14	14:00	G	Water	N	N	X	1	
GW-B		14:45		Water			X	1	
SW-02		14:30		Water			X	1	
SW-01		15:12		Water				1	
GW-3		16:40		Water				1	
GW-1		16:15						1	
GW-2		16:30						1	

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
SDB	6/12/14 20:00	STERLING	[illegible]	6/13/14 0900	[illegible]

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.0, 3.2, 3.5 #1

TestAmerica Albany
25 Kraft Road
Albany, NY 12205

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: SDB	Lab PM: Shaffer, Lisa E	Carrier Tracking No(s):	COC No: 480-50833-13578.1
Client Contact: Stephen Burton	Phone: 518 456 4900	E-Mail: lisa.shaffer@testamericainc.com		Page: Page 1 of 1
Company: Sterling Environmental Engineering PC				Job #:
Address: 24 Wade Road	Due Date Requested:			
City: Latham	TAT Requested (days):			
State, Zip: NY, 12110				
Phone:	PO #: Purchase Order not required			
Email: stephen.burton@sterlingenvironmental.com	WO #:			
Project Name: Orange County Landfill	Project #: 48005786			
Site: New York	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624_5ml_UP - Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
SW-01	6/12/14	15:12	G	Water	N	N	X	3	
GW-3		16:40		Water					
GW-2		16:15		Water					
GW-A		14:00		Water					
GW-B		14:45		Water					
SW-02		14:30		Water					
GW-2		16:30		Water					
TRIP BLANK		13:25		Water					
				Water					
				Water					

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: SDB	Date/Time: 6/12/14 20:00	Company: STERLING	Received by:	Date/Time: 6/13/14 0900	Company:
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.0, 3.2, 3.5 #1

Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-61861-1

Login Number: 61861
List Number: 1
Creator: Janish, Carl M

List Source: TestAmerica Buffalo

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.	True	
Chlorine Residual checked.	True	