

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Client Sample ID: WS-052511-TP-001

Lab Sample ID: 500-34638-5

Date Collected: 05/25/11 09:50

Matrix: Water

Date Received: 05/26/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	430000		10000	9400	ug/L			05/31/11 02:26	1

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Client Sample ID: WS-052511-TP-002

Lab Sample ID: 500-34638-6

Date Collected: 05/25/11 10:00

Matrix: Water

Date Received: 05/26/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	410000		10000	9400	ug/L			05/31/11 02:29	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Client Sample ID: GW-052511-TP-001

Lab Sample ID: 500-34638-7

Date Collected: 05/25/11 10:45

Matrix: Water

Date Received: 05/26/11 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 11:23	1
Arsenic	7.1	J	10	2.5	ug/L		05/31/11 16:30	06/02/11 11:23	1
Barium	190		10	0.84	ug/L		05/31/11 16:30	06/02/11 11:23	1
Cadmium	0.50	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 11:23	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 11:23	1
Copper	<10		10	1.4	ug/L		05/31/11 16:30	06/02/11 11:23	1
Iron	11000		200	40	ug/L		06/02/11 16:30	06/03/11 14:14	1
Manganese	940		10	0.94	ug/L		05/31/11 16:30	06/02/11 11:23	1
Selenium	2.9	J B	10	2.5	ug/L		05/31/11 16:30	06/02/11 11:23	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13000	^	2000	830	ug/L			05/26/11 19:10	10
Fluoride	620		200	29	ug/L			05/26/11 18:56	1
Nitrate as N	110	^	100	23	ug/L			05/26/11 18:56	1
Sulfate	410		200	90	ug/L			06/08/11 11:37	1
Total Dissolved Solids	360000		10000	9400	ug/L			06/01/11 00:05	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Client Sample ID: GW-052511-TP-002

Lab Sample ID: 500-34638-8

Date Collected: 05/25/11 11:35

Matrix: Water

Date Received: 05/26/11 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 11:27	1
Arsenic	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 11:27	1
Barium	93		10	0.84	ug/L		05/31/11 16:30	06/02/11 11:27	1
Cadmium	1.1	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 11:27	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 11:27	1
Copper	2.0	J	10	1.4	ug/L		05/31/11 16:30	06/02/11 11:27	1
Iron	3800		200	40	ug/L		06/02/11 16:30	06/03/11 14:18	1
Manganese	460		10	0.94	ug/L		05/31/11 16:30	06/02/11 11:27	1
Selenium	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 11:27	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48000	^	2000	830	ug/L			05/26/11 19:40	10
Fluoride	130	J	200	29	ug/L			05/26/11 19:25	1
Nitrate as N	180	^	100	23	ug/L			05/26/11 19:25	1
Sulfate	180000		4000	1800	ug/L			06/08/11 11:52	20
Total Dissolved Solids	850000		10000	9400	ug/L			06/01/11 00:07	1



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Client Sample ID: GW-052511-TP-003

Lab Sample ID: 500-34638-9

Date Collected: 05/25/11 15:45

Matrix: Water

Date Received: 05/26/11 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 11:31	1
Arsenic	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 11:31	1
Barium	390		10	0.84	ug/L		05/31/11 16:30	06/02/11 11:31	1
Cadmium	0.78	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 11:31	1
Chromium	5.1	J	10	1.5	ug/L		05/31/11 16:30	06/02/11 11:31	1
Copper	5.7	J	10	1.4	ug/L		05/31/11 16:30	06/02/11 11:31	1
Iron	1700		200	40	ug/L		06/02/11 16:30	06/03/11 14:22	1
Manganese	36		10	0.94	ug/L		05/31/11 16:30	06/02/11 11:31	1
Selenium	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 11:31	1
Zinc	14	J	20	6.6	ug/L		05/31/11 16:30	06/02/11 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350000		20000	8300	ug/L			06/08/11 01:00	100
Fluoride	1700		200	29	ug/L			05/26/11 19:55	1
Nitrate as N	<100		100	23	ug/L			05/26/11 19:55	1
Sulfate	7700	^	200	90	ug/L			05/26/11 19:55	1
Total Dissolved Solids	1300000		10000	9400	ug/L			06/01/11 00:10	1



Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Qualifiers

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Metals

Prep Batch: 115023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115023/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-115023/2-A	Lab Control Sample	Total/NA	Water	3010A	
500-34638-7	GW-052511-TP-001	Total/NA	Water	3010A	
500-34638-8	GW-052511-TP-002	Total/NA	Water	3010A	
500-34638-9	GW-052511-TP-003	Total/NA	Water	3010A	

Analysis Batch: 115315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115023/1-A	Method Blank	Total/NA	Water	6010B	115023
LCS 500-115023/2-A	Lab Control Sample	Total/NA	Water	6010B	115023
500-34638-7	GW-052511-TP-001	Total/NA	Water	6010B	115023
500-34638-8	GW-052511-TP-002	Total/NA	Water	6010B	115023
500-34638-9	GW-052511-TP-003	Total/NA	Water	6010B	115023

Prep Batch: 115343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115343/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-115343/2-A	Lab Control Sample	Total/NA	Water	3010A	
500-34638-7	GW-052511-TP-001	Total/NA	Water	3010A	
500-34638-8	GW-052511-TP-002	Total/NA	Water	3010A	
500-34638-9	GW-052511-TP-003	Total/NA	Water	3010A	

Analysis Batch: 115571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115343/1-A	Method Blank	Total/NA	Water	6010B	115343
LCS 500-115343/2-A	Lab Control Sample	Total/NA	Water	6010B	115343
500-34638-7	GW-052511-TP-001	Total/NA	Water	6010B	115343
500-34638-8	GW-052511-TP-002	Total/NA	Water	6010B	115343
500-34638-9	GW-052511-TP-003	Total/NA	Water	6010B	115343

General Chemistry

Analysis Batch: 114902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-114902/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-114902/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-34638-5	WS-052511-TP-001	Total/NA	Water	SM 2540C	
500-34638-6	WS-052511-TP-002	Total/NA	Water	SM 2540C	

Analysis Batch: 115045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115045/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-115045/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-34638-7	GW-052511-TP-001	Total/NA	Water	SM 2540C	
500-34638-8	GW-052511-TP-002	Total/NA	Water	SM 2540C	
500-34638-9	GW-052511-TP-003	Total/NA	Water	SM 2540C	

Analysis Batch: 115146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115146/3	Method Blank	Total/NA	Water	9056	
LCS 500-115146/4	Lab Control Sample	Total/NA	Water	9056	
500-34638-7	GW-052511-TP-001	Total/NA	Water	9056	



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

General Chemistry (Continued)

Analysis Batch: 115146 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-34638-7	GW-052511-TP-001	Total/NA	Water	9056	
500-34638-8	GW-052511-TP-002	Total/NA	Water	9056	
500-34638-8	GW-052511-TP-002	Total/NA	Water	9056	
500-34638-9	GW-052511-TP-003	Total/NA	Water	9056	
500-34638-9 MS	GW-052511-TP-003	Total/NA	Water	9056	
500-34638-9 MSD	GW-052511-TP-003	Total/NA	Water	9056	

Analysis Batch: 115833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115833/3	Method Blank	Total/NA	Water	9056	
LCS 500-115833/4	Lab Control Sample	Total/NA	Water	9056	
500-34638-9	GW-052511-TP-003	Total/NA	Water	9056	

Analysis Batch: 116201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-116201/3	Method Blank	Total/NA	Water	9056	
LCS 500-116201/4	Lab Control Sample	Total/NA	Water	9056	
500-34638-7	GW-052511-TP-001	Total/NA	Water	9056	
500-34638-8	GW-052511-TP-002	Total/NA	Water	9056	

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-115023/1-A
Matrix: Water
Analysis Batch: 115315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115023

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 10:42	1
Arsenic	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 10:42	1
Barium	<10		10	0.84	ug/L		05/31/11 16:30	06/02/11 10:42	1
Cadmium	<2.0		2.0	0.36	ug/L		05/31/11 16:30	06/02/11 10:42	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 10:42	1
Copper	<10		10	1.4	ug/L		05/31/11 16:30	06/02/11 10:42	1
Manganese	<10		10	0.94	ug/L		05/31/11 16:30	06/02/11 10:42	1
Selenium	2.59	J	10	2.5	ug/L		05/31/11 16:30	06/02/11 10:42	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 10:42	1

Lab Sample ID: LCS 500-115023/2-A
Matrix: Water
Analysis Batch: 115315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
Lead	100	95.4		ug/L		95	80 - 120	
Arsenic	100	101		ug/L		101	80 - 120	
Barium	2000	2010		ug/L		100	80 - 120	
Cadmium	50.0	48.6		ug/L		97	80 - 120	
Chromium	200	194		ug/L		97	80 - 120	
Copper	250	252		ug/L		101	80 - 120	
Manganese	500	482		ug/L		96	80 - 120	
Selenium	100	97.8		ug/L		98	80 - 120	
Zinc	500	478		ug/L		96	80 - 120	

Lab Sample ID: MB 500-115343/1-A
Matrix: Water
Analysis Batch: 115571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115343

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<200		200	40	ug/L		06/02/11 16:30	06/03/11 13:59	1

Lab Sample ID: LCS 500-115343/2-A
Matrix: Water
Analysis Batch: 115571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
Iron	1000	1080		ug/L		108	80 - 120	

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 500-115146/3
Matrix: Water
Analysis Batch: 115146

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<200		200	83	ug/L			05/26/11 18:26	1
Fluoride	<200		200	29	ug/L			05/26/11 18:26	1
Nitrate as N	<100		100	23	ug/L			05/26/11 18:26	1
Sulfate	<200		200	90	ug/L			05/26/11 18:26	1

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-115146/4
Matrix: Water
Analysis Batch: 115146

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

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	
Chloride	3000	2700		ug/L		90	80 - 120	
Fluoride	1000	945		ug/L		95	80 - 120	
Nitrate as N	2000	2030		ug/L		101	80 - 120	
Sulfate	5000	4770		ug/L		95	80 - 120	

Lab Sample ID: 500-34638-9 MS
Matrix: Water
Analysis Batch: 115146

Client Sample ID: GW-052511-TP-003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	% Rec	% Rec.	
				Result	Qualifier				Limits	
Fluoride	1700		1000	2620		ug/L		92	75 - 125	
Nitrate as N	<100		2000	2320		ug/L		116	75 - 125	
Sulfate	7700 ^		5000	12600		ug/L		100	75 - 125	

Lab Sample ID: 500-34638-9 MSD
Matrix: Water
Analysis Batch: 115146

Client Sample ID: GW-052511-TP-003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	% Rec	% Rec.		RPD	
				Result	Qualifier				Limits	RPD	Limit	
Fluoride	1700		1000	2420	F ^	ug/L		72	75 - 125		8	20
Nitrate as N	<100		2000	2210		ug/L		111	75 - 125		5	20
Sulfate	7700 ^		5000	12400		ug/L		96	75 - 125		2	20

Lab Sample ID: MB 500-115833/3
Matrix: Water
Analysis Batch: 115833

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<200		200	83	ug/L			06/07/11 18:05	1
Sulfate	<200		200	90	ug/L			06/07/11 18:05	1

Lab Sample ID: LCS 500-115833/4
Matrix: Water
Analysis Batch: 115833

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

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	
Chloride	3000	2750		ug/L		92	80 - 120	
Sulfate	5000	5130		ug/L		103	80 - 120	

Lab Sample ID: MB 500-116201/3
Matrix: Water
Analysis Batch: 116201

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	<200		200	90	ug/L			06/08/11 11:06	1

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-116201/4
 Matrix: Water
 Analysis Batch: 116201

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	5000	4960		ug/L		99	80 - 120

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

Lab Sample ID: MB 500-114902/1
 Matrix: Water
 Analysis Batch: 114902

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	<10000		10000	9400	ug/L			05/31/11 01:40	1

Lab Sample ID: LCS 500-114902/2
 Matrix: Water
 Analysis Batch: 114902

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	250000	252000		ug/L		101	80 - 120

Lab Sample ID: MB 500-115045/1
 Matrix: Water
 Analysis Batch: 115045

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	<10000		10000	9400	ug/L			06/01/11 00:01	1

Lab Sample ID: LCS 500-115045/2
 Matrix: Water
 Analysis Batch: 115045

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	250000	246000		ug/L		98	80 - 120

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	ACCLASS	DoD ELAP	0	ADE-1429
TestAmerica Chicago	ACCLASS	ISO/IEC 17025	0	AT-1428
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Florida	NELAC	4	E871072
TestAmerica Chicago	Georgia	Georgia EPD	4	N/A
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	Kentucky UST	4	66
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina	North Carolina DENR	4	291
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	USDA	USDA	0	P330-09-00027
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q

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



CONESTOGA-ROVERS & ASSOCIATES 6520 Corporate Drive Indianapolis, Indiana 46278 (317) 291-7007 phone (317) 328-2666 fax			SHIPPED TO (Laboratory Name): <i>IA</i>			500-34638					
			REFERENCE NUMBER: <i>070102-3</i>			PROJECT NAME: <i>CAT-Mapleton</i>					
CHAIN-OF-CUSTODY RECORD											
SAMPLER'S SIGNATURE: <i>[Signature]</i>			PRINTED NAME: <i>Tim Raney</i>			PARAMETERS <i>IDS</i> <i>Select metals</i> <i>NDA FILL USE</i>			REMARKS		
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS						
1	5/25/11	855	WL-052511-TP-001	Water	1	X					
2	↓	900	↓ ↓ ↓ -002	↓	1	X				} <i>5 Day TAT</i>	
3	↓	915	↓ ↓ ↓ -003	↓	1	X					
4	5/25/11	950	WL-052511-TP-004	Water	1	X					
5	5/25/11	950	WS-052511-TP-001	Water	1	X					
6	5/25/11	1000	WS-052511-TP-002	Water	1	X					
7	5/25/11	1045	GLW-052511-TP-001	Water	2	X	X	X			
8	5/25/11	1135	↓ ↓ ↓ -002	Water	2	X	X	X			
9	5/25/11	1545	GLW-052511-TP-003	Water	2	X	X	X			
TOTAL NUMBER OF CONTAINERS					<i>12</i>						
RELINQUISHED BY: <i>[Signature]</i>			DATE: <i>5/25/11</i> TIME: <i>1730</i>		RECEIVED BY: <i>[Signature]</i>			DATE: _____ TIME: _____			
RELINQUISHED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		RECEIVED BY: <i>[Signature]</i>			DATE: _____ TIME: _____			
RELINQUISHED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		RECEIVED BY: <i>[Signature]</i>			DATE: _____ TIME: _____			
METHOD OF SHIPMENT: <i>Fed Ex</i>					TRACKING No. <i>8724 2398 4489</i>						
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy			SAMPLE TEAM: <i>Tim Raney</i> <i>Jim Bolth</i>			RECEIVED FOR LABORATORY BY: <i>[Signature]</i>			2404		
					DATE: <i>5/26/11</i> TIME: <i>1030</i>						

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Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 500-34638-1

Login Number: 34638

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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	2.2
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-34888-1
Client Project/Site: Caterpillar-Mapleton 817 Landfill

For:
Conestoga-Rovers & Associates, Inc.
6520 Corporate Drive
Indianapolis, Indiana 46278

Attn: Mr. Michael Richardson



Authorized for release by:
06/06/2011 01:40:40 PM

Richard Wright
Project Manager II
richard.wright@testamericainc.com



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TotalAccess

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www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34888-1

Job ID: 500-34888-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-34888-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

No analytical or quality issues were noted.

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34888-1

Method	Method Description	Protocol	Laboratory
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34888-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-34888-1	WL-053111-TP-005	Water	05/31/11 12:50	06/02/11 10:30
500-34888-2	WL-053111-TP-006	Water	05/31/11 13:00	06/02/11 10:30

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34888-1

Client Sample ID: WL-053111-TP-005

Lab Sample ID: 500-34888-1

Date Collected: 05/31/11 12:50

Matrix: Water

Date Received: 06/02/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200000		10000	9400	ug/L			06/02/11 23:22	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34888-1

Client Sample ID: WL-053111-TP-006

Lab Sample ID: 500-34888-2

Date Collected: 05/31/11 13:00

Matrix: Water

Date Received: 06/02/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	920000		10000	9400	ug/L			06/02/11 23:25	1

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34888-1

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34888-1

General Chemistry

Analysis Batch: 115295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115295/1	MB 500-115295/1	Total/NA	Water	SM 2540C	
LCS 500-115295/2	LCS 500-115295/2	Total/NA	Water	SM 2540C	
500-34888-1	WL-053111-TP-005	Total/NA	Water	SM 2540C	
500-34888-2	WL-053111-TP-006	Total/NA	Water	SM 2540C	

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34888-1

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

Lab Sample ID: MB 500-115295/1
Matrix: Water
Analysis Batch: 115295

Client Sample ID: MB 500-115295/1
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10000		10000	9400	ug/L			06/02/11 22:35	1

Lab Sample ID: LCS 500-115295/2
Matrix: Water
Analysis Batch: 115295

Client Sample ID: LCS 500-115295/2
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Dissolved Solids	250000	248000		ug/L		99	80 - 120



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34888-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	ACCLASS	DoD ELAP	0	ADE-1429
TestAmerica Chicago	ACCLASS	ISO/IEC 17025	0	AT-1428
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Florida	NELAC	4	E871072
TestAmerica Chicago	Georgia	Georgia EPD	4	N/A
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	Kentucky UST	4	66
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina	North Carolina DENR	4	291
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	USDA	USDA	0	P330-09-00027
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q

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CONESTOGA-ROVERS & ASSOCIATES 8520 Corporate Drive Indianapolis, Indiana 46278 (317) 291-7007 phone (317) 328-2666 fax			SHIPPED TO (Laboratory Name): <i>TA</i>			500-34888								
			REFERENCE NUMBER: 070102-03			PROJECT NAME: CAT Mapleton, FL								
CHAIN-OF-CUSTODY RECORD														
SAMPLER'S SIGNATURE: <i>[Signature]</i>			PRINTED NAME: <i>T. Sawyer</i>			No. OF CONTAINERS 2			PARAMETERS <i>TPS</i>			REMARKS		
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX										
1	5/3/11	1250	WL-053111-TP-005	Water	1	X							350g TPT	
2	5/3/11	1300	WL-053111-TP-006	Water	1	X								
TOTAL NUMBER OF CONTAINERS					2									
RELINQUISHED BY: <i>[Signature]</i> ①			DATE: <i>6/1/11</i> TIME: <i>1700</i>			RECEIVED BY: <i>[Signature]</i> ②			DATE: TIME:					
RELINQUISHED BY: ②			DATE: TIME:			RECEIVED BY: ③			DATE: TIME:					
RELINQUISHED BY: ③			DATE: TIME:			RECEIVED BY: ④			DATE: TIME:					
METHOD OF SHIPMENT: <i>FedEx</i>					TRACKING No. <i>8724 2398 4490</i>									
White -Fully Executed Copy Yellow -Receiving Laboratory Copy Pink -Shipper Copy Goldenrod -Sampler Copy			SAMPLE TEAM: <i>Tim Sawyer</i> <i>Larick Clegg</i>			RECEIVED FOR LABORATORY BY: <i>[Signature]</i>			2407					
						DATE: <i>6/2/11</i> TIME: <i>1030</i>								

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 500-34888-1

Login Number: 34888

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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	3.1
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-34711-1
Client Project/Site: Caterpillar-Mapleton 817 Landfill

For:
Conestoga-Rovers & Associates, Inc.
6520 Corporate Drive
Indianapolis, Indiana 46278

Attn: Mr. Michael Richardson

Cindy Pritchard

Authorized for release by:
06/13/2011 05:07:51 PM
Cindy Pritchard
Project Mgmt. Assistant
cindy.pritchard@testamericainc.com
Designee for
Richard Wright
Project Manager II
richard.wright@testamericainc.com

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Job ID: 500-34711-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-34711-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method(s) 6010B: The following samples need to be re-digested due to LCS contamination for Fe.

No other analytical or quality issues were noted.

General Chemistry

Method(s) 9056: Compounds bromide and nitrate eluted outside the retention time window on the ion chromatography column for the following samples in batch 116358: (CCV 500-116358/34). This retention time shift was taken into account and corrected for when reviewing the samples for target compounds.

No other analytical or quality issues were noted.

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-004

Lab Sample ID: 500-34711-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	76		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	1.4	J	2.0	0.36	ug/L	1		6010B	Total/NA
Iron	100	J	200	40	ug/L	1		6010B	Total/NA
Manganese	2200		10	0.94	ug/L	1		6010B	Total/NA
Chloride	190000		5000	2100	ug/L	25		9056	Total/NA
Fluoride	96	J	200	29	ug/L	1		9056	Total/NA
Sulfate	200000		5000	2200	ug/L	25		9056	Total/NA
Total Dissolved Solids	980000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052611-TP-005

Lab Sample ID: 500-34711-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		10	2.5	ug/L	1		6010B	Total/NA
Barium	150		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.98	J	2.0	0.36	ug/L	1		6010B	Total/NA
Chromium	1.8	J	10	1.5	ug/L	1		6010B	Total/NA
Iron	3200		200	40	ug/L	1		6010B	Total/NA
Manganese	2200		10	0.94	ug/L	1		6010B	Total/NA
Chloride	180000		5000	2100	ug/L	25		9056	Total/NA
Sulfate	110000		5000	2200	ug/L	25		9056	Total/NA
Total Dissolved Solids	790000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052611-TP-006

Lab Sample ID: 500-34711-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	240		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	1.1	J	2.0	0.36	ug/L	1		6010B	Total/NA
Iron	23000		200	40	ug/L	1		6010B	Total/NA
Manganese	240		10	0.94	ug/L	1		6010B	Total/NA
Selenium	3.5	J B	10	2.5	ug/L	1		6010B	Total/NA
Chloride	54000		2000	830	ug/L	10		9056	Total/NA
Fluoride	150	J	200	29	ug/L	1		9056	Total/NA
Sulfate	260		200	90	ug/L	1		9056	Total/NA
Total Dissolved Solids	870000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052611-TP-007

Lab Sample ID: 500-34711-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.0	J	10	2.5	ug/L	1		6010B	Total/NA
Barium	240		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.97	J	2.0	0.36	ug/L	1		6010B	Total/NA
Iron	23000		200	40	ug/L	1		6010B	Total/NA
Manganese	240		10	0.94	ug/L	1		6010B	Total/NA
Selenium	3.3	J B	10	2.5	ug/L	1		6010B	Total/NA
Chloride	54000		2000	830	ug/L	10		9056	Total/NA
Fluoride	170	J	200	29	ug/L	1		9056	Total/NA
Sulfate	300		200	90	ug/L	1		9056	Total/NA
Total Dissolved Solids	810000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052611-TP-008

Lab Sample ID: 500-34711-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	140		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.90	J	2.0	0.36	ug/L	1		6010B	Total/NA

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-008 (Continued)

Lab Sample ID: 500-34711-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1.6	J	10	1.5	ug/L	1		6010B	Total/NA
Iron	13000		200	40	ug/L	1		6010B	Total/NA
Manganese	2100		10	0.94	ug/L	1		6010B	Total/NA
Chloride	63000		2000	830	ug/L	10		9056	Total/NA
Fluoride	180	J	200	29	ug/L	1		9056	Total/NA
Sulfate	180000		4000	1800	ug/L	20		9056	Total/NA
Total Dissolved Solids	850000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052611-TP-009

Lab Sample ID: 500-34711-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	24		10	2.5	ug/L	1		6010B	Total/NA
Barium	75		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.52	J	2.0	0.36	ug/L	1		6010B	Total/NA
Iron	6100		200	40	ug/L	1		6010B	Total/NA
Manganese	370		10	0.94	ug/L	1		6010B	Total/NA
Selenium	5.4	J B	10	2.5	ug/L	1		6010B	Total/NA
Chloride	140000		5000	2100	ug/L	25		9056	Total/NA
Fluoride	3700		400	58	ug/L	2		9056	Total/NA
Sulfate	140	J	200	90	ug/L	1		9056	Total/NA
Total Dissolved Solids	1200000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052611-TP-010

Lab Sample ID: 500-34711-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		10	2.5	ug/L	1		6010B	Total/NA
Barium	110		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.71	J	2.0	0.36	ug/L	1		6010B	Total/NA
Copper	2.0	J	10	1.4	ug/L	1		6010B	Total/NA
Iron	4000		200	40	ug/L	1		6010B	Total/NA
Manganese	2800		10	0.94	ug/L	1		6010B	Total/NA
Selenium	4.3	J B	10	2.5	ug/L	1		6010B	Total/NA
Chloride	210000		10000	4200	ug/L	50		9056	Total/NA
Fluoride	3700		400	58	ug/L	2		9056	Total/NA
Sulfate	30000		2000	900	ug/L	10		9056	Total/NA
Total Dissolved Solids	1200000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052611-TP-011

Lab Sample ID: 500-34711-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1	J	10	2.5	ug/L	1		6010B	Total/NA
Barium	190		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.62	J	2.0	0.36	ug/L	1		6010B	Total/NA
Copper	1.5	J	10	1.4	ug/L	1		6010B	Total/NA
Iron	12000		200	40	ug/L	1		6010B	Total/NA
Manganese	1100		10	0.94	ug/L	1		6010B	Total/NA
Selenium	3.3	J B	10	2.5	ug/L	1		6010B	Total/NA
Chloride	170000		10000	4200	ug/L	50		9056	Total/NA
Fluoride	3900		400	58	ug/L	2		9056	Total/NA
Sulfate	1800		200	90	ug/L	1		9056	Total/NA
Total Dissolved Solids	1200000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052611-TP-012

Lab Sample ID: 500-34711-9

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-012 (Continued)

Lab Sample ID: 500-34711-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	160		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	1.1	J	2.0	0.36	ug/L	1		6010B	Total/NA
Chromium	8.1	J	10	1.5	ug/L	1		6010B	Total/NA
Copper	27		10	1.4	ug/L	1		6010B	Total/NA
Iron	8600		200	40	ug/L	1		6010B	Total/NA
Manganese	370		10	0.94	ug/L	1		6010B	Total/NA
Selenium	4.5	J B	10	2.5	ug/L	1		6010B	Total/NA
Zinc	51		20	6.6	ug/L	1		6010B	Total/NA
Chloride	72000		2000	830	ug/L	10		9056	Total/NA
Fluoride	220		200	29	ug/L	1		9056	Total/NA
Nitrate as N	1000		100	23	ug/L	1		9056	Total/NA
Sulfate	45000		2000	900	ug/L	10		9056	Total/NA
Total Dissolved Solids	400000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052611-TP-013

Lab Sample ID: 500-34711-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	50		10	2.5	ug/L	1		6010B	Total/NA
Barium	320		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.69	J	2.0	0.36	ug/L	1		6010B	Total/NA
Iron	4800		200	40	ug/L	1		6010B	Total/NA
Manganese	1200		10	0.94	ug/L	1		6010B	Total/NA
Selenium	4.8	J B	10	2.5	ug/L	1		6010B	Total/NA
Zinc	9.4	J	20	6.6	ug/L	1		6010B	Total/NA
Chloride	160000		5000	2100	ug/L	25		9056	Total/NA
Fluoride	4200		400	58	ug/L	2		9056	Total/NA
Sulfate	41000		5000	2200	ug/L	25		9056	Total/NA
Total Dissolved Solids	1100000		10000	9400	ug/L	1		SM 2540C	Total/NA



CONESTOGA-ROVERS & ASSOCIATES 6520 Corporate Drive Indianapolis, Indiana 46278 (317) 291-7007 phone (317) 328-2666 fax		SHIPPED TO (Laboratory Name): <i>TA</i>				500-34711				
		REFERENCE NUMBER: <i>070102-3</i>		PROJECT NAME: <i>CAT Mapleton, IN</i>						
CHAIN-OF-CUSTODY RECORD										
SAMPLER'S SIGNATURE: <i>[Signature]</i>			PRINTED NAME: <i>Tom Prange</i>							
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS				REMARKS
						<i>Selected Metals</i>	<i>CL + PL + SO₄</i>	<i>NDS</i>	<i>IDS</i>	
1	5/26/11	920	GW-052611-TP-004	Water	4	x	x	x	x	<i>refused</i>
2	↓	1030	GW-052611-TP-005	↓	2	x	x	x	x	
3		1110	GW-052611-TP-006		2	x	x	x	x	
4		1115	GW-052611-TP-007		2	x	x	x	x	
5		1200	GW-052611-TP-008		2	x	x	x	x	
6		1230	GW-052611-TP-009		2	x	x	x	x	
7		1445	GW-052611-TP-010		2	x	x	x	x	
8		1540	GW-052611-TP-011		2	x	x	x	x	
9		1630	GW-052611-TP-012		2	x	x	x	x	
10		5/26/11	1745		GW-052611-TP-013	Water	2	x	x	x
TOTAL NUMBER OF CONTAINERS					22					
RELINQUISHED BY: <i>[Signature]</i>			DATE: <i>5/26/11</i> TIME: <i>1875</i>		RECEIVED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		
RELINQUISHED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		RECEIVED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		
RELINQUISHED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		RECEIVED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		
METHOD OF SHIPMENT: <i>FedEx</i>					TRACKING No. <i>8724 2398 4240</i>					
White -Fully Executed Copy Yellow -Receiving Laboratory Copy Pink -Shipper Copy Goldenrod -Sampler Copy			SAMPLE TEAM: <i>Tom Prange</i> <i>John B. [Signature]</i>		RECEIVED FOR LABORATORY BY: <i>[Signature]</i>			2405		
					DATE: <i>5/27/11</i>		TIME: <i>0945</i>			

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI
9056	Anions, Ion Chromatography	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI

Protocol References:

- 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 CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-34711-1	GW-052611-TP-004	Water	05/26/11 09:20	05/27/11 09:45
500-34711-2	GW-052611-TP-005	Water	05/26/11 10:30	05/27/11 09:45
500-34711-3	GW-052611-TP-006	Water	05/26/11 11:10	05/27/11 09:45
500-34711-4	GW-052611-TP-007	Water	05/26/11 11:15	05/27/11 09:45
500-34711-5	GW-052611-TP-008	Water	05/26/11 12:00	05/27/11 09:45
500-34711-6	GW-052611-TP-009	Water	05/26/11 12:30	05/27/11 09:45
500-34711-7	GW-052611-TP-010	Water	05/26/11 14:45	05/27/11 09:45
500-34711-8	GW-052611-TP-011	Water	05/26/11 15:40	05/27/11 09:45
500-34711-9	GW-052611-TP-012	Water	05/26/11 16:50	05/27/11 09:45
500-34711-10	GW-052611-TP-013	Water	05/26/11 17:45	05/27/11 09:45

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-004

Lab Sample ID: 500-34711-1

Date Collected: 05/26/11 09:20

Matrix: Water

Date Received: 05/27/11 09:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 11:35	1
Arsenic	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 11:35	1
Barium	76		10	0.84	ug/L		05/31/11 16:30	06/02/11 11:35	1
Cadmium	1.4	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 11:35	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 11:35	1
Copper	<10		10	1.4	ug/L		05/31/11 16:30	06/02/11 11:35	1
Iron	100	J	200	40	ug/L		06/02/11 16:30	06/03/11 14:26	1
Manganese	2200		10	0.94	ug/L		05/31/11 16:30	06/02/11 11:35	1
Selenium	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 11:35	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190000		5000	2100	ug/L			06/13/11 12:30	25
Fluoride	96	J	200	29	ug/L			05/27/11 17:29	1
Nitrate as N	<100		100	23	ug/L			05/27/11 17:29	1
Sulfate	200000		5000	2200	ug/L			06/08/11 15:43	25
Total Dissolved Solids	980000		10000	9400	ug/L			06/01/11 00:12	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-005

Lab Sample ID: 500-34711-2

Date Collected: 05/26/11 10:30

Matrix: Water

Date Received: 05/27/11 09:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 12:02	1
Arsenic	20		10	2.5	ug/L		05/31/11 16:30	06/02/11 12:02	1
Barium	150		10	0.84	ug/L		05/31/11 16:30	06/02/11 12:02	1
Cadmium	0.98	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 12:02	1
Chromium	1.8	J	10	1.5	ug/L		05/31/11 16:30	06/02/11 12:02	1
Copper	<10		10	1.4	ug/L		05/31/11 16:30	06/02/11 12:02	1
Iron	3200		200	40	ug/L		06/02/11 16:30	06/03/11 14:53	1
Manganese	2200		10	0.94	ug/L		05/31/11 16:30	06/02/11 12:02	1
Selenium	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 12:02	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180000		5000	2100	ug/L			06/13/11 13:16	25
Fluoride	<200		200	29	ug/L			05/27/11 18:58	1
Nitrate as N	<100		100	23	ug/L			05/27/11 18:58	1
Sulfate	110000		5000	2200	ug/L			06/08/11 16:29	25
Total Dissolved Solids	790000		10000	9400	ug/L			06/01/11 00:19	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-006

Lab Sample ID: 500-34711-3

Date Collected: 05/26/11 11:10

Matrix: Water

Date Received: 05/27/11 09:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 12:06	1
Arsenic	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 12:06	1
Barium	240		10	0.84	ug/L		05/31/11 16:30	06/02/11 12:06	1
Cadmium	1.1	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 12:06	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 12:06	1
Copper	<10		10	1.4	ug/L		05/31/11 16:30	06/02/11 12:06	1
Iron	23000		200	40	ug/L		06/02/11 16:30	06/03/11 14:57	1
Manganese	240		10	0.94	ug/L		05/31/11 16:30	06/02/11 12:06	1
Selenium	3.5	J B	10	2.5	ug/L		05/31/11 16:30	06/02/11 12:06	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54000		2000	830	ug/L			05/27/11 20:12	10
Fluoride	150	J	200	29	ug/L			05/27/11 19:57	1
Nitrate as N	<100		100	23	ug/L			05/27/11 19:57	1
Sulfate	260		200	90	ug/L			05/27/11 19:57	1
Total Dissolved Solids	870000		10000	9400	ug/L			06/01/11 00:21	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-007

Lab Sample ID: 500-34711-4

Date Collected: 05/26/11 11:15

Matrix: Water

Date Received: 05/27/11 09:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 12:10	1
Arsenic	3.0	J	10	2.5	ug/L		05/31/11 16:30	06/02/11 12:10	1
Barium	240		10	0.84	ug/L		05/31/11 16:30	06/02/11 12:10	1
Cadmium	0.97	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 12:10	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 12:10	1
Copper	<10		10	1.4	ug/L		05/31/11 16:30	06/02/11 12:10	1
Iron	23000		200	40	ug/L		06/02/11 16:30	06/03/11 15:00	1
Manganese	240		10	0.94	ug/L		05/31/11 16:30	06/02/11 12:10	1
Selenium	3.3	J B	10	2.5	ug/L		05/31/11 16:30	06/02/11 12:10	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54000		2000	830	ug/L			05/27/11 20:41	10
Fluoride	170	J	200	29	ug/L			05/27/11 20:27	1
Nitrate as N	<100		100	23	ug/L			05/27/11 20:27	1
Sulfate	300		200	90	ug/L			05/27/11 20:27	1
Total Dissolved Solids	810000		10000	9400	ug/L			06/01/11 00:23	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-008

Lab Sample ID: 500-34711-5

Date Collected: 05/26/11 12:00

Matrix: Water

Date Received: 05/27/11 09:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 12:14	1
Arsenic	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 12:14	1
Barium	140		10	0.84	ug/L		05/31/11 16:30	06/02/11 12:14	1
Cadmium	0.90	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 12:14	1
Chromium	1.6	J	10	1.5	ug/L		05/31/11 16:30	06/02/11 12:14	1
Copper	<10		10	1.4	ug/L		05/31/11 16:30	06/02/11 12:14	1
Iron	13000		200	40	ug/L		06/02/11 16:30	06/03/11 15:04	1
Manganese	2100		10	0.94	ug/L		05/31/11 16:30	06/02/11 12:14	1
Selenium	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 12:14	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63000		2000	830	ug/L			05/28/11 11:51	10
Fluoride	180	J	200	29	ug/L			05/28/11 11:36	1
Nitrate as N	<100		100	23	ug/L			05/28/11 11:36	1
Sulfate	180000		4000	1800	ug/L			06/11/11 00:34	20
Total Dissolved Solids	850000		10000	9400	ug/L			06/01/11 00:25	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-009

Lab Sample ID: 500-34711-6

Date Collected: 05/26/11 12:30

Matrix: Water

Date Received: 05/27/11 09:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 12:17	1
Arsenic	24		10	2.5	ug/L		05/31/11 16:30	06/02/11 12:17	1
Barium	75		10	0.84	ug/L		05/31/11 16:30	06/02/11 12:17	1
Cadmium	0.52	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 12:17	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 12:17	1
Copper	<10		10	1.4	ug/L		05/31/11 16:30	06/02/11 12:17	1
Iron	6100		200	40	ug/L		06/02/11 16:30	06/03/11 15:08	1
Manganese	370		10	0.94	ug/L		05/31/11 16:30	06/02/11 12:17	1
Selenium	5.4	J B	10	2.5	ug/L		05/31/11 16:30	06/02/11 12:17	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140000		5000	2100	ug/L			06/08/11 18:16	25
Fluoride	3700		400	58	ug/L			06/08/11 17:30	2
Nitrate as N	<100		100	23	ug/L			05/28/11 12:06	1
Sulfate	140	J	200	90	ug/L			05/28/11 12:06	1
Total Dissolved Solids	1200000		10000	9400	ug/L			06/01/11 00:28	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-010

Lab Sample ID: 500-34711-7

Date Collected: 05/26/11 14:45

Matrix: Water

Date Received: 05/27/11 09:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 12:22	1
Arsenic	14		10	2.5	ug/L		05/31/11 16:30	06/02/11 12:22	1
Barium	110		10	0.84	ug/L		05/31/11 16:30	06/02/11 12:22	1
Cadmium	0.71	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 12:22	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 12:22	1
Copper	2.0	J	10	1.4	ug/L		05/31/11 16:30	06/02/11 12:22	1
Iron	4000		200	40	ug/L		06/02/11 16:30	06/03/11 15:13	1
Manganese	2800		10	0.94	ug/L		05/31/11 16:30	06/02/11 12:22	1
Selenium	4.3	J B	10	2.5	ug/L		05/31/11 16:30	06/02/11 12:22	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210000		10000	4200	ug/L			06/08/11 18:47	50
Fluoride	3700		400	58	ug/L			06/08/11 18:32	2
Nitrate as N	<100		100	23	ug/L			05/28/11 12:36	1
Sulfate	30000		2000	900	ug/L			05/28/11 12:50	10
Total Dissolved Solids	1200000		10000	9400	ug/L			06/01/11 00:30	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-011

Lab Sample ID: 500-34711-8

Date Collected: 05/26/11 15:40

Matrix: Water

Date Received: 05/27/11 09:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 12:26	1
Arsenic	3.1	J	10	2.5	ug/L		05/31/11 16:30	06/02/11 12:26	1
Barium	190		10	0.84	ug/L		05/31/11 16:30	06/02/11 12:26	1
Cadmium	0.62	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 12:26	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 12:26	1
Copper	1.5	J	10	1.4	ug/L		05/31/11 16:30	06/02/11 12:26	1
Iron	12000		200	40	ug/L		06/02/11 16:30	06/03/11 15:17	1
Manganese	1100		10	0.94	ug/L		05/31/11 16:30	06/02/11 12:26	1
Selenium	3.3	J B	10	2.5	ug/L		05/31/11 16:30	06/02/11 12:26	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170000		10000	4200	ug/L			06/09/11 10:49	50
Fluoride	3900		400	58	ug/L			06/09/11 10:34	2
Nitrate as N	<100		100	23	ug/L			05/28/11 13:35	1
Sulfate	1800		200	90	ug/L			05/28/11 13:35	1
Total Dissolved Solids	1200000		10000	9400	ug/L			06/01/11 00:32	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-012

Lab Sample ID: 500-34711-9

Date Collected: 05/26/11 16:50

Matrix: Water

Date Received: 05/27/11 09:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 12:31	1
Arsenic	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 12:31	1
Barium	160		10	0.84	ug/L		05/31/11 16:30	06/02/11 12:31	1
Cadmium	1.1	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 12:31	1
Chromium	8.1	J	10	1.5	ug/L		05/31/11 16:30	06/02/11 12:31	1
Copper	27		10	1.4	ug/L		05/31/11 16:30	06/02/11 12:31	1
Iron	8600		200	40	ug/L		06/02/11 16:30	06/03/11 15:21	1
Manganese	370		10	0.94	ug/L		05/31/11 16:30	06/02/11 12:31	1
Selenium	4.5	J B	10	2.5	ug/L		05/31/11 16:30	06/02/11 12:31	1
Zinc	51		20	6.6	ug/L		05/31/11 16:30	06/02/11 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72000		2000	830	ug/L			05/28/11 14:19	10
Fluoride	220		200	29	ug/L			05/28/11 14:05	1
Nitrate as N	1000		100	23	ug/L			05/28/11 14:05	1
Sulfate	45000		2000	900	ug/L			05/28/11 14:19	10
Total Dissolved Solids	400000		10000	9400	ug/L			06/01/11 00:34	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Client Sample ID: GW-052611-TP-013

Lab Sample ID: 500-34711-10

Date Collected: 05/26/11 17:45

Matrix: Water

Date Received: 05/27/11 09:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 12:35	1
Arsenic	50		10	2.5	ug/L		05/31/11 16:30	06/02/11 12:35	1
Barium	320		10	0.84	ug/L		05/31/11 16:30	06/02/11 12:35	1
Cadmium	0.69	J	2.0	0.36	ug/L		05/31/11 16:30	06/02/11 12:35	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 12:35	1
Copper	<10		10	1.4	ug/L		05/31/11 16:30	06/02/11 12:35	1
Iron	4800		200	40	ug/L		06/02/11 16:30	06/03/11 15:33	1
Manganese	1200		10	0.94	ug/L		05/31/11 16:30	06/02/11 12:35	1
Selenium	4.8	J B	10	2.5	ug/L		05/31/11 16:30	06/02/11 12:35	1
Zinc	9.4	J	20	6.6	ug/L		05/31/11 16:30	06/02/11 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160000		5000	2100	ug/L			06/13/11 14:03	25
Fluoride	4200		400	58	ug/L			06/11/11 00:50	2
Nitrate as N	<100		100	23	ug/L			05/28/11 14:34	1
Sulfate	41000		5000	2200	ug/L			06/11/11 01:05	25
Total Dissolved Solids	1100000		10000	9400	ug/L			06/01/11 00:37	1

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
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.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Metals

Prep Batch: 115023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115023/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-115023/2-A	Lab Control Sample	Total/NA	Water	3010A	
500-34711-1	GW-052611-TP-004	Total/NA	Water	3010A	
500-34711-1 DU	GW-052611-TP-004	Total/NA	Water	3010A	
500-34711-1 MS	GW-052611-TP-004	Total/NA	Water	3010A	
500-34711-1 MSD	GW-052611-TP-004	Total/NA	Water	3010A	
500-34711-2	GW-052611-TP-005	Total/NA	Water	3010A	
500-34711-3	GW-052611-TP-006	Total/NA	Water	3010A	
500-34711-4	GW-052611-TP-007	Total/NA	Water	3010A	
500-34711-5	GW-052611-TP-008	Total/NA	Water	3010A	
500-34711-6	GW-052611-TP-009	Total/NA	Water	3010A	
500-34711-7	GW-052611-TP-010	Total/NA	Water	3010A	
500-34711-8	GW-052611-TP-011	Total/NA	Water	3010A	
500-34711-9	GW-052611-TP-012	Total/NA	Water	3010A	
500-34711-10	GW-052611-TP-013	Total/NA	Water	3010A	

Analysis Batch: 115315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115023/1-A	Method Blank	Total/NA	Water	6010B	115023
LCS 500-115023/2-A	Lab Control Sample	Total/NA	Water	6010B	115023
500-34711-1	GW-052611-TP-004	Total/NA	Water	6010B	115023
500-34711-1 DU	GW-052611-TP-004	Total/NA	Water	6010B	115023
500-34711-1 MS	GW-052611-TP-004	Total/NA	Water	6010B	115023
500-34711-1 MSD	GW-052611-TP-004	Total/NA	Water	6010B	115023
500-34711-2	GW-052611-TP-005	Total/NA	Water	6010B	115023
500-34711-3	GW-052611-TP-006	Total/NA	Water	6010B	115023
500-34711-4	GW-052611-TP-007	Total/NA	Water	6010B	115023
500-34711-5	GW-052611-TP-008	Total/NA	Water	6010B	115023
500-34711-6	GW-052611-TP-009	Total/NA	Water	6010B	115023
500-34711-7	GW-052611-TP-010	Total/NA	Water	6010B	115023
500-34711-8	GW-052611-TP-011	Total/NA	Water	6010B	115023
500-34711-9	GW-052611-TP-012	Total/NA	Water	6010B	115023
500-34711-10	GW-052611-TP-013	Total/NA	Water	6010B	115023

Prep Batch: 115343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115343/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-115343/2-A	Lab Control Sample	Total/NA	Water	3010A	
500-34711-1	GW-052611-TP-004	Total/NA	Water	3010A	
500-34711-1 DU	GW-052611-TP-004	Total/NA	Water	3010A	
500-34711-1 MS	GW-052611-TP-004	Total/NA	Water	3010A	
500-34711-1 MSD	GW-052611-TP-004	Total/NA	Water	3010A	
500-34711-2	GW-052611-TP-005	Total/NA	Water	3010A	
500-34711-3	GW-052611-TP-006	Total/NA	Water	3010A	
500-34711-4	GW-052611-TP-007	Total/NA	Water	3010A	
500-34711-5	GW-052611-TP-008	Total/NA	Water	3010A	
500-34711-6	GW-052611-TP-009	Total/NA	Water	3010A	
500-34711-7	GW-052611-TP-010	Total/NA	Water	3010A	
500-34711-8	GW-052611-TP-011	Total/NA	Water	3010A	
500-34711-9	GW-052611-TP-012	Total/NA	Water	3010A	
500-34711-10	GW-052611-TP-013	Total/NA	Water	3010A	



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Metals (Continued)

Analysis Batch: 115571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115343/1-A	Method Blank	Total/NA	Water	6010B	115343
LCS 500-115343/2-A	Lab Control Sample	Total/NA	Water	6010B	115343
500-34711-1	GW-052611-TP-004	Total/NA	Water	6010B	115343
500-34711-1 DU	GW-052611-TP-004	Total/NA	Water	6010B	115343
500-34711-1 MS	GW-052611-TP-004	Total/NA	Water	6010B	115343
500-34711-1 MSD	GW-052611-TP-004	Total/NA	Water	6010B	115343
500-34711-2	GW-052611-TP-005	Total/NA	Water	6010B	115343
500-34711-3	GW-052611-TP-006	Total/NA	Water	6010B	115343
500-34711-4	GW-052611-TP-007	Total/NA	Water	6010B	115343
500-34711-5	GW-052611-TP-008	Total/NA	Water	6010B	115343
500-34711-6	GW-052611-TP-009	Total/NA	Water	6010B	115343
500-34711-7	GW-052611-TP-010	Total/NA	Water	6010B	115343
500-34711-8	GW-052611-TP-011	Total/NA	Water	6010B	115343
500-34711-9	GW-052611-TP-012	Total/NA	Water	6010B	115343
500-34711-10	GW-052611-TP-013	Total/NA	Water	6010B	115343

General Chemistry

Analysis Batch: 115045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115045/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-115045/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-34711-1	GW-052611-TP-004	Total/NA	Water	SM 2540C	
500-34711-1 MS	GW-052611-TP-004	Total/NA	Water	SM 2540C	
500-34711-1 MSD	GW-052611-TP-004	Total/NA	Water	SM 2540C	
500-34711-2	GW-052611-TP-005	Total/NA	Water	SM 2540C	
500-34711-3	GW-052611-TP-006	Total/NA	Water	SM 2540C	
500-34711-4	GW-052611-TP-007	Total/NA	Water	SM 2540C	
500-34711-5	GW-052611-TP-008	Total/NA	Water	SM 2540C	
500-34711-6	GW-052611-TP-009	Total/NA	Water	SM 2540C	
500-34711-7	GW-052611-TP-010	Total/NA	Water	SM 2540C	
500-34711-8	GW-052611-TP-011	Total/NA	Water	SM 2540C	
500-34711-9	GW-052611-TP-012	Total/NA	Water	SM 2540C	
500-34711-10	GW-052611-TP-013	Total/NA	Water	SM 2540C	

Analysis Batch: 116062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-116062/3	Method Blank	Total/NA	Water	9056	
LCS 500-116062/4	Lab Control Sample	Total/NA	Water	9056	
500-34711-1	GW-052611-TP-004	Total/NA	Water	9056	
500-34711-1 MS	GW-052611-TP-004	Total/NA	Water	9056	
500-34711-1 MSD	GW-052611-TP-004	Total/NA	Water	9056	
500-34711-2	GW-052611-TP-005	Total/NA	Water	9056	
500-34711-3	GW-052611-TP-006	Total/NA	Water	9056	
500-34711-3	GW-052611-TP-006	Total/NA	Water	9056	
500-34711-4	GW-052611-TP-007	Total/NA	Water	9056	
500-34711-4	GW-052611-TP-007	Total/NA	Water	9056	
500-34711-5	GW-052611-TP-008	Total/NA	Water	9056	
500-34711-5	GW-052611-TP-008	Total/NA	Water	9056	
500-34711-6	GW-052611-TP-009	Total/NA	Water	9056	
500-34711-7	GW-052611-TP-010	Total/NA	Water	9056	
500-34711-7	GW-052611-TP-010	Total/NA	Water	9056	



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

General Chemistry (Continued)

Analysis Batch: 116062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-34711-8	GW-052611-TP-011	Total/NA	Water	9056	
500-34711-9	GW-052611-TP-012	Total/NA	Water	9056	
500-34711-9	GW-052611-TP-012	Total/NA	Water	9056	
500-34711-10	GW-052611-TP-013	Total/NA	Water	9056	

Analysis Batch: 116201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-116201/3	Method Blank	Total/NA	Water	9056	
LCS 500-116201/4	Lab Control Sample	Total/NA	Water	9056	
500-34711-1	GW-052611-TP-004	Total/NA	Water	9056	
500-34711-1 MS	GW-052611-TP-004	Total/NA	Water	9056	
500-34711-1 MSD	GW-052611-TP-004	Total/NA	Water	9056	
500-34711-2	GW-052611-TP-005	Total/NA	Water	9056	
500-34711-6	GW-052611-TP-009	Total/NA	Water	9056	
500-34711-6 MS	GW-052611-TP-009	Total/NA	Water	9056	
500-34711-6 MSD	GW-052611-TP-009	Total/NA	Water	9056	
500-34711-6	GW-052611-TP-009	Total/NA	Water	9056	
500-34711-7	GW-052611-TP-010	Total/NA	Water	9056	
500-34711-7	GW-052611-TP-010	Total/NA	Water	9056	
500-34711-8	GW-052611-TP-011	Total/NA	Water	9056	
500-34711-8	GW-052611-TP-011	Total/NA	Water	9056	

Analysis Batch: 116356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-116356/3	Method Blank	Total/NA	Water	9056	
LCS 500-116356/4	Lab Control Sample	Total/NA	Water	9056	
500-34711-1	GW-052611-TP-004	Total/NA	Water	9056	
500-34711-1 MS	GW-052611-TP-004	Total/NA	Water	9056	
500-34711-1 MSD	GW-052611-TP-004	Total/NA	Water	9056	
500-34711-2	GW-052611-TP-005	Total/NA	Water	9056	
500-34711-10	GW-052611-TP-013	Total/NA	Water	9056	

Analysis Batch: 116358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-116358/3	Method Blank	Total/NA	Water	9056	
LCS 500-116358/4	Lab Control Sample	Total/NA	Water	9056	
500-34711-5	GW-052611-TP-008	Total/NA	Water	9056	
500-34711-10	GW-052611-TP-013	Total/NA	Water	9056	
500-34711-10	GW-052611-TP-013	Total/NA	Water	9056	



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-115023/1-A
Matrix: Water
Analysis Batch: 115315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115023

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<5.0		5.0	2.0	ug/L		05/31/11 16:30	06/02/11 10:42	1
Arsenic	<10		10	2.5	ug/L		05/31/11 16:30	06/02/11 10:42	1
Barium	<10		10	0.84	ug/L		05/31/11 16:30	06/02/11 10:42	1
Cadmium	<2.0		2.0	0.36	ug/L		05/31/11 16:30	06/02/11 10:42	1
Chromium	<10		10	1.5	ug/L		05/31/11 16:30	06/02/11 10:42	1
Copper	<10		10	1.4	ug/L		05/31/11 16:30	06/02/11 10:42	1
Manganese	<10		10	0.94	ug/L		05/31/11 16:30	06/02/11 10:42	1
Selenium	2.59	J	10	2.5	ug/L		05/31/11 16:30	06/02/11 10:42	1
Zinc	<20		20	6.6	ug/L		05/31/11 16:30	06/02/11 10:42	1

Lab Sample ID: LCS 500-115023/2-A
Matrix: Water
Analysis Batch: 115315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	100	101		ug/L		101	80 - 120
Barium	2000	2010		ug/L		100	80 - 120
Cadmium	50.0	48.6		ug/L		97	80 - 120
Chromium	200	194		ug/L		97	80 - 120
Copper	250	252		ug/L		101	80 - 120
Manganese	500	482		ug/L		96	80 - 120
Selenium	100	97.8		ug/L		98	80 - 120
Zinc	500	478		ug/L		96	80 - 120

Lab Sample ID: 500-34711-1 MS
Matrix: Water
Analysis Batch: 115315

Client Sample ID: GW-052611-TP-004
Prep Type: Total/NA
Prep Batch: 115023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	<10		100	106		ug/L		106	75 - 125
Barium	76		2000	2090		ug/L		101	75 - 125
Cadmium	1.4	J	50.0	51.5		ug/L		100	75 - 125
Chromium	<10		200	193		ug/L		97	75 - 125
Copper	<10		250	261		ug/L		105	75 - 125
Manganese	2200		500	2650	4	ug/L		84	75 - 125
Selenium	<10		100	106		ug/L		106	75 - 125
Zinc	<20		500	498		ug/L		100	75 - 125

Lab Sample ID: 500-34711-1 MSD
Matrix: Water
Analysis Batch: 115315

Client Sample ID: GW-052611-TP-004
Prep Type: Total/NA
Prep Batch: 115023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	
										RPD	Limit
Lead	<5.0		100	96.9		ug/L		97	75 - 125	0	20
Arsenic	<10		100	103		ug/L		103	75 - 125	2	20
Barium	76		2000	2090		ug/L		101	75 - 125	0	20
Cadmium	1.4	J	50.0	51.5		ug/L		100	75 - 125	0	20
Chromium	<10		200	193		ug/L		96	75 - 125	0	20

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

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

Lab Sample ID: 500-34711-1 MSD
 Matrix: Water
 Analysis Batch: 115315

Client Sample ID: GW-052611-TP-004
 Prep Type: Total/NA
 Prep Batch: 115023

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Copper	<10		250	263		ug/L		105	75 - 125	1	20
Manganese	2200		500	2550	4	ug/L		63	75 - 125	4	20
Selenium	<10		100	104		ug/L		104	75 - 125	2	20
Zinc	<20		500	500		ug/L		100	75 - 125	0	20

Lab Sample ID: 500-34711-1 DU
 Matrix: Water
 Analysis Batch: 115315

Client Sample ID: GW-052611-TP-004
 Prep Type: Total/NA
 Prep Batch: 115023

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Lead	<5.0		<5.0		ug/L		NC	20
Arsenic	<10		<10		ug/L		NC	20
Barium	76		72.9		ug/L		4	20
Cadmium	1.4	J	1.31	J	ug/L		7	20
Chromium	<10		<10		ug/L		NC	20
Copper	<10		<10		ug/L		NC	20
Manganese	2200		2130		ug/L		5	20
Selenium	<10		2.51	J	ug/L		NC	20
Zinc	<20		<20		ug/L		NC	20

Lab Sample ID: MB 500-115343/1-A
 Matrix: Water
 Analysis Batch: 115571

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 115343

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<200		200	40	ug/L		06/02/11 16:30	06/03/11 13:59	1

Lab Sample ID: LCS 500-115343/2-A
 Matrix: Water
 Analysis Batch: 115571

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 115343

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.	
		Added	Result				Qualifier	Limits
Iron	1000	1080		ug/L		108	80 - 120	

Lab Sample ID: 500-34711-1 MS
 Matrix: Water
 Analysis Batch: 115571

Client Sample ID: GW-052611-TP-004
 Prep Type: Total/NA
 Prep Batch: 115343

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Iron	100	J	1000	1080		ug/L		98	75 - 125	

Lab Sample ID: 500-34711-1 MSD
 Matrix: Water
 Analysis Batch: 115571

Client Sample ID: GW-052611-TP-004
 Prep Type: Total/NA
 Prep Batch: 115343

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Iron	100	J	1000	1150		ug/L		105	75 - 125	7	20

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

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

Lab Sample ID: 500-34711-1 DU
 Matrix: Water
 Analysis Batch: 115571

Client Sample ID: GW-052611-TP-004
 Prep Type: Total/NA
 Prep Batch: 115343

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Iron	100	J	81.1	J	ug/L			22	20

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 500-116062/3
 Matrix: Water
 Analysis Batch: 116062

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<200		200	83	ug/L			05/27/11 16:59	1
Fluoride	<200		200	29	ug/L			05/27/11 16:59	1
Nitrate as N	<100		100	23	ug/L			05/27/11 16:59	1
Sulfate	<200		200	90	ug/L			05/27/11 16:59	1

Lab Sample ID: LCS 500-116062/4
 Matrix: Water
 Analysis Batch: 116062

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Fluoride	1000	926		ug/L		93	80 - 120
Nitrate as N	2000	1940		ug/L		97	80 - 120
Sulfate	5000	4670		ug/L		93	80 - 120

Lab Sample ID: 500-34711-1 MS
 Matrix: Water
 Analysis Batch: 116062

Client Sample ID: GW-052611-TP-004
 Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	% Rec	% Rec. Limits
	Result	Qualifier		Result	Qualifier				
Fluoride	96	J	1000	855		ug/L		76	75 - 125
Nitrate as N	<100		2000	2210		ug/L		110	75 - 125

Lab Sample ID: 500-34711-1 MSD
 Matrix: Water
 Analysis Batch: 116062

Client Sample ID: GW-052611-TP-004
 Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	% Rec	% Rec. Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Fluoride	96	J	1000	863		ug/L		77	75 - 125	1	20
Nitrate as N	<100		2000	2210		ug/L		110	75 - 125	0	20

Lab Sample ID: MB 500-116201/3
 Matrix: Water
 Analysis Batch: 116201

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<200		200	83	ug/L			06/08/11 11:06	1
Fluoride	<200		200	29	ug/L			06/08/11 11:06	1
Sulfate	<200		200	90	ug/L			06/08/11 11:06	1

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-116201/4
Matrix: Water
Analysis Batch: 116201

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	3000	2900		ug/L		97	80 - 120
Fluoride	1000	1010		ug/L		101	80 - 120
Sulfate	5000	4960		ug/L		99	80 - 120

Lab Sample ID: 500-34711-1 MS
Matrix: Water
Analysis Batch: 116201

Client Sample ID: GW-052611-TP-004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	200000		125000	315000		ug/L		92	75 - 125

Lab Sample ID: 500-34711-1 MSD
Matrix: Water
Analysis Batch: 116201

Client Sample ID: GW-052611-TP-004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	Limit
Sulfate	200000		125000	312000		ug/L		90	75 - 125	1	20

Lab Sample ID: 500-34711-6 MS
Matrix: Water
Analysis Batch: 116201

Client Sample ID: GW-052611-TP-009
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Fluoride	3700		2000	5940		ug/L		113	75 - 125

Lab Sample ID: 500-34711-6 MSD
Matrix: Water
Analysis Batch: 116201

Client Sample ID: GW-052611-TP-009
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	Limit
Fluoride	3700		2000	5970		ug/L		115	75 - 125	0	20

Lab Sample ID: MB 500-116356/3
Matrix: Water
Analysis Batch: 116356

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<200		200	83	ug/L			06/13/11 10:58	1

Lab Sample ID: LCS 500-116356/4
Matrix: Water
Analysis Batch: 116356

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	3000	2960		ug/L		99	80 - 120

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-34711-1 MS
 Matrix: Water
 Analysis Batch: 116356

Client Sample ID: GW-052611-TP-004
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	190000		75000	282000		ug/L		117	75 - 125

Lab Sample ID: 500-34711-1 MSD
 Matrix: Water
 Analysis Batch: 116356

Client Sample ID: GW-052611-TP-004
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	190000		75000	279000		ug/L		112	75 - 125	1	20

Lab Sample ID: MB 500-116358/3
 Matrix: Water
 Analysis Batch: 116358

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<200		200	29	ug/L			06/10/11 17:24	1
Sulfate	<200		200	90	ug/L			06/10/11 17:24	1

Lab Sample ID: LCS 500-116358/4
 Matrix: Water
 Analysis Batch: 116358

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Fluoride	1000	1080		ug/L		108	80 - 120
Sulfate	5000	5010		ug/L		100	80 - 120

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

Lab Sample ID: MB 500-115045/1
 Matrix: Water
 Analysis Batch: 115045

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	<10000		10000	9400	ug/L			06/01/11 00:01	1

Lab Sample ID: LCS 500-115045/2
 Matrix: Water
 Analysis Batch: 115045

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	250000	246000		ug/L		98	80 - 120

Lab Sample ID: 500-34711-1 MS
 Matrix: Water
 Analysis Batch: 115045

Client Sample ID: GW-052611-TP-004
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Dissolved Solids	980000		250000	1250000		ug/L		106	75 - 125

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

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

Lab Sample ID: 500-34711-1 MSD

Matrix: Water

Analysis Batch: 115045

Client Sample ID: GW-052611-TP-004

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	980000		250000	1250000		ug/L		105	75 - 125	0	20

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34711-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	ACCLASS	DoD ELAP	0	ADE-1429
TestAmerica Chicago	ACCLASS	ISO/IEC 17025	0	AT-1428
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Florida	NELAC	4	E871072
TestAmerica Chicago	Georgia	Georgia EPD	4	N/A
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	Kentucky UST	4	66
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina	North Carolina DENR	4	291
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	USDA	USDA	0	P330-09-00027
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q

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



CONESTOGA-ROVERS & ASSOCIATES 6520 Corporate Drive Indianapolis, Indiana 46278 (317) 291-7007 phone (317) 328-2666 fax		SHIPPED TO (Laboratory Name): <i>TA</i>				500-34711				
		REFERENCE NUMBER: <i>070102-3</i>		PROJECT NAME: <i>CAT Mapleton, IN</i>						
CHAIN-OF-CUSTODY RECORD										
SAMPLER'S SIGNATURE: <i>[Signature]</i>			PRINTED NAME: <i>Tom Prange</i>							
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS				REMARKS
						<i>Selected Metals</i>	<i>CL</i>	<i>PL</i>	<i>SD</i>	
1	5/26/11	920	GW-052611-TP-004	Water	4	X	X	X	X	<i>refined</i>
2	↓	1030	GW-052611-TP-005	↓	2	X	X	X	X	
3		1110	GW-052611-TP-006		2	X	X	X	X	
4		1115	GW-052611-TP-007		2	X	X	X	X	
5		1200	GW-052611-TP-008		2	X	X	X	X	
6		1230	GW-052611-TP-009		2	X	X	X	X	
7		1445	GW-052611-TP-010		2	X	X	X	X	
8		1540	GW-052611-TP-011		2	X	X	X	X	
9		1630	GW-052611-TP-012		2	X	X	X	X	
10		5/26/11	1745		GW-052611-TP-013	Water	2	X	X	X
TOTAL NUMBER OF CONTAINERS					22					
RELINQUISHED BY: <i>[Signature]</i>			DATE: <i>5/26/11</i> TIME: <i>1875</i>		RECEIVED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		
RELINQUISHED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		RECEIVED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		
RELINQUISHED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		RECEIVED BY: <i>[Signature]</i>			DATE: _____ TIME: _____		
METHOD OF SHIPMENT: <i>FedEx</i>					TRACKING No. <i>8724 2398 4240</i>					
White -Fully Executed Copy Yellow -Receiving Laboratory Copy Pink -Shipper Copy Goldenrod -Sampler Copy			SAMPLE TEAM: <i>Tom Prange</i> <i>John B. [Signature]</i>		RECEIVED FOR LABORATORY BY: <i>[Signature]</i>			2405		
					DATE: <i>5/27/11</i>		TIME: <i>0945</i>			

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 500-34711-1

Login Number: 34711

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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	3.2
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-34763-1
Client Project/Site: Caterpillar-Mapleton 817 Landfill

For:
Conestoga-Rovers & Associates, Inc.
6520 Corporate Drive
Indianapolis, Indiana 46278

Attn: Mr. Michael Richardson



Authorized for release by:
06/14/2011 04:23:10 PM

Richard Wright
Project Manager II
richard.wright@testamericainc.com



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www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Job ID: 500-34763-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-34763-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 9056: The IC fluoride matrix spike / matrix spike duplicate (MS/MSD) recoveries for sample GW-052711-TP-014 (500-34763-1) in batch 116062 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 9056: The following IC samples in batch 116062 were diluted due to the abundance of non-target analytes: GW-052711-TP-014 (500-34763-1), GW-052711-TP-015 (500-34763-2), GW-052711-TP-016 (500-34763-3). Elevated reporting limits (RLs) for nitrate are provided.

No other analytical or quality issues were noted.

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Client Sample ID: GW-052711-TP-014

Lab Sample ID: 500-34763-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	430		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.85	J	2.0	0.36	ug/L	1		6010B	Total/NA
Chromium	2.2	J	10	1.5	ug/L	1		6010B	Total/NA
Iron	1500		200	40	ug/L	1		6010B	Total/NA
Manganese	850		10	0.94	ug/L	1		6010B	Total/NA
Chloride	710000		40000	17000	ug/L	200		9056	Total/NA
Fluoride	130	J	200	29	ug/L	1		9056	Total/NA
Sulfate	40000		2000	900	ug/L	10		9056	Total/NA
Total Dissolved Solids	1600000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052711-TP-015

Lab Sample ID: 500-34763-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	430		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.78	J	2.0	0.36	ug/L	1		6010B	Total/NA
Iron	1500		200	40	ug/L	1		6010B	Total/NA
Manganese	880		10	0.94	ug/L	1		6010B	Total/NA
Selenium	4.1	J	10	2.5	ug/L	1		6010B	Total/NA
Chloride	700000		40000	17000	ug/L	200		9056	Total/NA
Fluoride	130	J	200	29	ug/L	1		9056	Total/NA
Sulfate	39000		2000	900	ug/L	10		9056	Total/NA
Total Dissolved Solids	1600000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052711-TP-016

Lab Sample ID: 500-34763-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	21		10	2.5	ug/L	1		6010B	Total/NA
Barium	530		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.80	J	2.0	0.36	ug/L	1		6010B	Total/NA
Copper	11		10	1.4	ug/L	1		6010B	Total/NA
Iron	21000		200	40	ug/L	1		6010B	Total/NA
Manganese	1200		10	0.94	ug/L	1		6010B	Total/NA
Chloride	450000		20000	8300	ug/L	100		9056	Total/NA
Fluoride	510		200	29	ug/L	1		9056	Total/NA
Sulfate	340		200	90	ug/L	1		9056	Total/NA
Total Dissolved Solids	1500000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052711-TP-017

Lab Sample ID: 500-34763-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	560		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.73	J	2.0	0.36	ug/L	1		6010B	Total/NA
Iron	21000		200	40	ug/L	1		6010B	Total/NA
Manganese	910		10	0.94	ug/L	1		6010B	Total/NA
Chloride	180000		10000	4200	ug/L	50		9056	Total/NA
Fluoride	98	J	200	29	ug/L	1		9056	Total/NA
Sulfate	110000		4000	1800	ug/L	20		9056	Total/NA
Total Dissolved Solids	1100000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052711-TP-018

Lab Sample ID: 500-34763-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	69		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.52	J	2.0	0.36	ug/L	1		6010B	Total/NA

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Client Sample ID: GW-052711-TP-018 (Continued)

Lab Sample ID: 500-34763-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1.9	J	10	1.5	ug/L	1		6010B	Total/NA
Copper	1.5	J	10	1.4	ug/L	1		6010B	Total/NA
Iron	520		200	40	ug/L	1		6010B	Total/NA
Manganese	14		10	0.94	ug/L	1		6010B	Total/NA
Selenium	7.6	J	10	2.5	ug/L	1		6010B	Total/NA
Zinc	11	J	20	6.6	ug/L	1		6010B	Total/NA
Chloride	110000		4000	1700	ug/L	20		9056	Total/NA
Fluoride	750		200	29	ug/L	1		9056	Total/NA
Nitrate as N	1100		100	23	ug/L	1		9056	Total/NA
Sulfate	390000		20000	9000	ug/L	100		9056	Total/NA
Total Dissolved Solids	1500000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052711-TP-019

Lab Sample ID: 500-34763-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10		5.0	2.0	ug/L	1		6010B	Total/NA
Arsenic	5.2	J	10	2.5	ug/L	1		6010B	Total/NA
Barium	850		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	1.0	J	2.0	0.36	ug/L	1		6010B	Total/NA
Chromium	240		10	1.5	ug/L	1		6010B	Total/NA
Copper	33		10	1.4	ug/L	1		6010B	Total/NA
Iron	56000		200	40	ug/L	1		6010B	Total/NA
Manganese	1000		10	0.94	ug/L	1		6010B	Total/NA
Selenium	25		10	2.5	ug/L	1		6010B	Total/NA
Zinc	140		20	6.6	ug/L	1		6010B	Total/NA
Chloride	220000		10000	4200	ug/L	50		9056	Total/NA
Fluoride	1900		200	29	ug/L	1		9056	Total/NA
Nitrate as N	990		100	23	ug/L	1		9056	Total/NA
Sulfate	190000		10000	4500	ug/L	50		9056	Total/NA
Total Dissolved Solids	1100000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI
9056	Anions, Ion Chromatography	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI

Protocol References:

- 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 CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-34763-1	GW-052711-TP-014	Water	05/27/11 08:10	05/28/11 09:10
500-34763-2	GW-052711-TP-015	Water	05/27/11 08:15	05/28/11 09:10
500-34763-3	GW-052711-TP-016	Water	05/27/11 09:00	05/28/11 09:10
500-34763-4	GW-052711-TP-017	Water	05/27/11 10:15	05/28/11 09:10
500-34763-5	GW-052711-TP-018	Water	05/27/11 10:35	05/28/11 09:10
500-34763-6	GW-052711-TP-019	Water	05/27/11 10:55	05/28/11 09:10

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Client Sample ID: GW-052711-TP-014

Lab Sample ID: 500-34763-1

Date Collected: 05/27/11 08:10

Matrix: Water

Date Received: 05/28/11 09:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		06/01/11 16:33	06/02/11 16:15	1
Arsenic	<10		10	2.5	ug/L		06/01/11 16:33	06/02/11 16:15	1
Barium	430		10	0.84	ug/L		06/01/11 16:33	06/02/11 16:15	1
Cadmium	0.85	J	2.0	0.36	ug/L		06/01/11 16:33	06/02/11 16:15	1
Chromium	2.2	J	10	1.5	ug/L		06/01/11 16:33	06/02/11 16:15	1
Copper	<10		10	1.4	ug/L		06/01/11 16:33	06/02/11 16:15	1
Iron	1500		200	40	ug/L		06/01/11 16:33	06/02/11 16:15	1
Manganese	850		10	0.94	ug/L		06/01/11 16:33	06/02/11 16:15	1
Selenium	<10		10	2.5	ug/L		06/01/11 16:33	06/02/11 16:15	1
Zinc	<20		20	6.6	ug/L		06/01/11 16:33	06/02/11 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	710000		40000	17000	ug/L			06/13/11 20:22	200
Fluoride	130	J	200	29	ug/L			05/28/11 15:34	1
Nitrate as N	<1000		1000	230	ug/L			05/28/11 15:48	10
Sulfate	40000		2000	900	ug/L			05/28/11 15:48	10
Total Dissolved Solids	1600000		10000	9400	ug/L			06/02/11 22:49	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Client Sample ID: GW-052711-TP-015

Lab Sample ID: 500-34763-2

Date Collected: 05/27/11 08:15

Matrix: Water

Date Received: 05/28/11 09:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		06/01/11 16:33	06/02/11 16:49	1
Arsenic	<10		10	2.5	ug/L		06/01/11 16:33	06/02/11 16:49	1
Barium	430		10	0.84	ug/L		06/01/11 16:33	06/02/11 16:49	1
Cadmium	0.78	J	2.0	0.36	ug/L		06/01/11 16:33	06/02/11 16:49	1
Chromium	<10		10	1.5	ug/L		06/01/11 16:33	06/02/11 16:49	1
Copper	<10		10	1.4	ug/L		06/01/11 16:33	06/02/11 16:49	1
Iron	1500		200	40	ug/L		06/01/11 16:33	06/02/11 16:49	1
Manganese	880		10	0.94	ug/L		06/01/11 16:33	06/02/11 16:49	1
Selenium	4.1	J	10	2.5	ug/L		06/01/11 16:33	06/02/11 16:49	1
Zinc	<20		20	6.6	ug/L		06/01/11 16:33	06/02/11 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	700000		40000	17000	ug/L			06/13/11 20:37	200
Fluoride	130	J	200	29	ug/L			05/28/11 17:03	1
Nitrate as N	<1000		1000	230	ug/L			05/28/11 17:17	10
Sulfate	39000		2000	900	ug/L			05/28/11 17:17	10
Total Dissolved Solids	1600000		10000	9400	ug/L			06/02/11 22:51	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Client Sample ID: GW-052711-TP-016

Lab Sample ID: 500-34763-3

Date Collected: 05/27/11 09:00

Matrix: Water

Date Received: 05/28/11 09:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		06/01/11 16:33	06/02/11 16:54	1
Arsenic	21		10	2.5	ug/L		06/01/11 16:33	06/02/11 16:54	1
Barium	530		10	0.84	ug/L		06/01/11 16:33	06/02/11 16:54	1
Cadmium	0.80	J	2.0	0.36	ug/L		06/01/11 16:33	06/02/11 16:54	1
Chromium	<10		10	1.5	ug/L		06/01/11 16:33	06/02/11 16:54	1
Copper	11		10	1.4	ug/L		06/01/11 16:33	06/02/11 16:54	1
Iron	21000		200	40	ug/L		06/01/11 16:33	06/02/11 16:54	1
Manganese	1200		10	0.94	ug/L		06/01/11 16:33	06/02/11 16:54	1
Selenium	<10		10	2.5	ug/L		06/01/11 16:33	06/02/11 16:54	1
Zinc	<20		20	6.6	ug/L		06/01/11 16:33	06/02/11 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450000		20000	8300	ug/L			06/13/11 20:53	100
Fluoride	510		200	29	ug/L			05/28/11 18:02	1
Nitrate as N	<1000		1000	230	ug/L			05/28/11 18:17	10
Sulfate	340		200	90	ug/L			05/28/11 18:02	1
Total Dissolved Solids	1500000		10000	9400	ug/L			06/02/11 22:54	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Client Sample ID: GW-052711-TP-017

Lab Sample ID: 500-34763-4

Date Collected: 05/27/11 10:15

Matrix: Water

Date Received: 05/28/11 09:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		06/01/11 16:33	06/02/11 16:58	1
Arsenic	<10		10	2.5	ug/L		06/01/11 16:33	06/02/11 16:58	1
Barium	560		10	0.84	ug/L		06/01/11 16:33	06/02/11 16:58	1
Cadmium	0.73	J	2.0	0.36	ug/L		06/01/11 16:33	06/02/11 16:58	1
Chromium	<10		10	1.5	ug/L		06/01/11 16:33	06/02/11 16:58	1
Copper	<10		10	1.4	ug/L		06/01/11 16:33	06/02/11 16:58	1
Iron	21000		200	40	ug/L		06/01/11 16:33	06/02/11 16:58	1
Manganese	910		10	0.94	ug/L		06/01/11 16:33	06/02/11 16:58	1
Selenium	<10		10	2.5	ug/L		06/01/11 16:33	06/02/11 16:58	1
Zinc	<20		20	6.6	ug/L		06/01/11 16:33	06/02/11 16:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180000		10000	4200	ug/L			06/13/11 21:23	50
Fluoride	98	J	200	29	ug/L			05/28/11 18:32	1
Nitrate as N	<100		100	23	ug/L			05/28/11 18:32	1
Sulfate	110000		4000	1800	ug/L			06/13/11 21:08	20
Total Dissolved Solids	1100000		10000	9400	ug/L			06/02/11 22:56	1



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Client Sample ID: GW-052711-TP-018

Lab Sample ID: 500-34763-5

Date Collected: 05/27/11 10:35

Matrix: Water

Date Received: 05/28/11 09:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<5.0		5.0	2.0	ug/L		06/01/11 16:33	06/02/11 17:02	1
Arsenic	<10		10	2.5	ug/L		06/01/11 16:33	06/02/11 17:02	1
Barium	69		10	0.84	ug/L		06/01/11 16:33	06/02/11 17:02	1
Cadmium	0.52	J	2.0	0.36	ug/L		06/01/11 16:33	06/02/11 17:02	1
Chromium	1.9	J	10	1.5	ug/L		06/01/11 16:33	06/02/11 17:02	1
Copper	1.5	J	10	1.4	ug/L		06/01/11 16:33	06/02/11 17:02	1
Iron	520		200	40	ug/L		06/01/11 16:33	06/02/11 17:02	1
Manganese	14		10	0.94	ug/L		06/01/11 16:33	06/02/11 17:02	1
Selenium	7.6	J	10	2.5	ug/L		06/01/11 16:33	06/02/11 17:02	1
Zinc	11	J	20	6.6	ug/L		06/01/11 16:33	06/02/11 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110000		4000	1700	ug/L			06/13/11 21:39	20
Fluoride	750		200	29	ug/L			05/28/11 19:01	1
Nitrate as N	1100		100	23	ug/L			05/28/11 19:01	1
Sulfate	390000		20000	9000	ug/L			06/13/11 21:54	100
Total Dissolved Solids	1500000		10000	9400	ug/L			06/02/11 22:58	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Client Sample ID: GW-052711-TP-019

Lab Sample ID: 500-34763-6

Date Collected: 05/27/11 10:55

Matrix: Water

Date Received: 05/28/11 09:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10		5.0	2.0	ug/L		06/01/11 16:33	06/02/11 17:07	1
Arsenic	5.2	J	10	2.5	ug/L		06/01/11 16:33	06/02/11 17:07	1
Barium	850		10	0.84	ug/L		06/01/11 16:33	06/02/11 17:07	1
Cadmium	1.0	J	2.0	0.36	ug/L		06/01/11 16:33	06/02/11 17:07	1
Chromium	240		10	1.5	ug/L		06/01/11 16:33	06/02/11 17:07	1
Copper	33		10	1.4	ug/L		06/01/11 16:33	06/02/11 17:07	1
Iron	56000		200	40	ug/L		06/01/11 16:33	06/02/11 17:07	1
Manganese	1000		10	0.94	ug/L		06/01/11 16:33	06/02/11 17:07	1
Selenium	25		10	2.5	ug/L		06/01/11 16:33	06/02/11 17:07	1
Zinc	140		20	6.6	ug/L		06/01/11 16:33	06/02/11 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220000		10000	4200	ug/L			06/13/11 22:10	50
Fluoride	1900		200	29	ug/L			05/28/11 19:31	1
Nitrate as N	990		100	23	ug/L			05/28/11 19:31	1
Sulfate	190000		10000	4500	ug/L			06/13/11 22:10	50
Total Dissolved Solids	1100000		10000	9400	ug/L			06/02/11 23:01	1

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Metals

Prep Batch: 115183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115183/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-115183/2-A	Lab Control Sample	Total/NA	Water	3010A	
500-34763-1	GW-052711-TP-014	Total/NA	Water	3010A	
500-34763-1 DU	GW-052711-TP-014	Total/NA	Water	3010A	
500-34763-1 MS	GW-052711-TP-014	Total/NA	Water	3010A	
500-34763-1 MSD	GW-052711-TP-014	Total/NA	Water	3010A	
500-34763-2	GW-052711-TP-015	Total/NA	Water	3010A	
500-34763-3	GW-052711-TP-016	Total/NA	Water	3010A	
500-34763-4	GW-052711-TP-017	Total/NA	Water	3010A	
500-34763-5	GW-052711-TP-018	Total/NA	Water	3010A	
500-34763-6	GW-052711-TP-019	Total/NA	Water	3010A	

Analysis Batch: 115297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115183/1-A	Method Blank	Total/NA	Water	6010B	115183
LCS 500-115183/2-A	Lab Control Sample	Total/NA	Water	6010B	115183
500-34763-1	GW-052711-TP-014	Total/NA	Water	6010B	115183
500-34763-1 DU	GW-052711-TP-014	Total/NA	Water	6010B	115183
500-34763-1 MS	GW-052711-TP-014	Total/NA	Water	6010B	115183
500-34763-1 MSD	GW-052711-TP-014	Total/NA	Water	6010B	115183
500-34763-2	GW-052711-TP-015	Total/NA	Water	6010B	115183
500-34763-3	GW-052711-TP-016	Total/NA	Water	6010B	115183
500-34763-4	GW-052711-TP-017	Total/NA	Water	6010B	115183
500-34763-5	GW-052711-TP-018	Total/NA	Water	6010B	115183
500-34763-6	GW-052711-TP-019	Total/NA	Water	6010B	115183

General Chemistry

Analysis Batch: 115295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115295/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-115295/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-34763-1	GW-052711-TP-014	Total/NA	Water	SM 2540C	
500-34763-2	GW-052711-TP-015	Total/NA	Water	SM 2540C	
500-34763-3	GW-052711-TP-016	Total/NA	Water	SM 2540C	
500-34763-4	GW-052711-TP-017	Total/NA	Water	SM 2540C	
500-34763-5	GW-052711-TP-018	Total/NA	Water	SM 2540C	
500-34763-6	GW-052711-TP-019	Total/NA	Water	SM 2540C	

Analysis Batch: 116062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-116062/3	Method Blank	Total/NA	Water	9056	
LCS 500-116062/4	Lab Control Sample	Total/NA	Water	9056	
500-34763-1	GW-052711-TP-014	Total/NA	Water	9056	
500-34763-1	GW-052711-TP-014	Total/NA	Water	9056	
500-34763-1 MS	GW-052711-TP-014	Total/NA	Water	9056	
500-34763-1 MS	GW-052711-TP-014	Total/NA	Water	9056	
500-34763-1 MSD	GW-052711-TP-014	Total/NA	Water	9056	
500-34763-1 MSD	GW-052711-TP-014	Total/NA	Water	9056	
500-34763-2	GW-052711-TP-015	Total/NA	Water	9056	
500-34763-2	GW-052711-TP-015	Total/NA	Water	9056	
500-34763-3	GW-052711-TP-016	Total/NA	Water	9056	



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

General Chemistry (Continued)

Analysis Batch: 116062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-34763-3	GW-052711-TP-016	Total/NA	Water	9056	
500-34763-4	GW-052711-TP-017	Total/NA	Water	9056	
500-34763-5	GW-052711-TP-018	Total/NA	Water	9056	
500-34763-6	GW-052711-TP-019	Total/NA	Water	9056	

Analysis Batch: 116403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-116403/3	Method Blank	Total/NA	Water	9056	
LCS 500-116403/4	Lab Control Sample	Total/NA	Water	9056	
500-34763-1	GW-052711-TP-014	Total/NA	Water	9056	
500-34763-2	GW-052711-TP-015	Total/NA	Water	9056	
500-34763-3	GW-052711-TP-016	Total/NA	Water	9056	
500-34763-4	GW-052711-TP-017	Total/NA	Water	9056	
500-34763-4	GW-052711-TP-017	Total/NA	Water	9056	
500-34763-5	GW-052711-TP-018	Total/NA	Water	9056	
500-34763-5	GW-052711-TP-018	Total/NA	Water	9056	
500-34763-6	GW-052711-TP-019	Total/NA	Water	9056	
500-34763-6 MS	GW-052711-TP-019	Total/NA	Water	9056	
500-34763-6 MSD	GW-052711-TP-019	Total/NA	Water	9056	

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-115183/1-A
Matrix: Water
Analysis Batch: 115297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115183

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<5.0		5.0	2.0	ug/L		06/01/11 16:33	06/02/11 15:06	1
Arsenic	<10		10	2.5	ug/L		06/01/11 16:33	06/02/11 15:06	1
Barium	<10		10	0.84	ug/L		06/01/11 16:33	06/02/11 15:06	1
Cadmium	<2.0		2.0	0.36	ug/L		06/01/11 16:33	06/02/11 15:06	1
Chromium	<10		10	1.5	ug/L		06/01/11 16:33	06/02/11 15:06	1
Copper	<10		10	1.4	ug/L		06/01/11 16:33	06/02/11 15:06	1
Iron	<200		200	40	ug/L		06/01/11 16:33	06/02/11 15:06	1
Manganese	<10		10	0.94	ug/L		06/01/11 16:33	06/02/11 15:06	1
Selenium	<10		10	2.5	ug/L		06/01/11 16:33	06/02/11 15:06	1
Zinc	<20		20	6.6	ug/L		06/01/11 16:33	06/02/11 15:06	1

Lab Sample ID: LCS 500-115183/2-A
Matrix: Water
Analysis Batch: 115297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec	Limits
Lead	100	94.8		ug/L		95		80 - 120
Arsenic	100	95.0		ug/L		95		80 - 120
Barium	2000	1970		ug/L		98		80 - 120
Cadmium	50.0	47.4		ug/L		95		80 - 120
Chromium	200	195		ug/L		97		80 - 120
Copper	250	247		ug/L		99		80 - 120
Iron	1000	1010		ug/L		101		80 - 120
Manganese	500	491		ug/L		98		80 - 120
Selenium	100	94.5		ug/L		95		80 - 120
Zinc	500	488		ug/L		98		80 - 120

Lab Sample ID: 500-34763-1 MS
Matrix: Water
Analysis Batch: 115297

Client Sample ID: GW-052711-TP-014
Prep Type: Total/NA
Prep Batch: 115183

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec	Limits
Lead	<5.0		100	96.1		ug/L		96		75 - 125
Arsenic	<10		100	103		ug/L		103		75 - 125
Barium	430		2000	2380		ug/L		98		75 - 125
Cadmium	0.85	J	50.0	51.0		ug/L		100		75 - 125
Chromium	2.2	J	200	192		ug/L		95		75 - 125
Copper	<10		250	258		ug/L		103		75 - 125
Iron	1500		1000	2560		ug/L		106		75 - 125
Manganese	850		500	1360		ug/L		101		75 - 125
Selenium	<10		100	100		ug/L		100		75 - 125
Zinc	<20		500	520		ug/L		104		75 - 125

Lab Sample ID: 500-34763-1 MSD
Matrix: Water
Analysis Batch: 115297

Client Sample ID: GW-052711-TP-014
Prep Type: Total/NA
Prep Batch: 115183

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec	Limits	RPD	
											RPD	Limit
Lead	<5.0		100	97.2		ug/L		97		75 - 125	1	20
Arsenic	<10		100	104		ug/L		104		75 - 125	1	20

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

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

Lab Sample ID: 500-34763-1 MSD
 Matrix: Water
 Analysis Batch: 115297

Client Sample ID: GW-052711-TP-014
 Prep Type: Total/NA
 Prep Batch: 115183

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Barium	430		2000	2390		ug/L		98	75 - 125	1	20
Cadmium	0.85	J	50.0	51.8		ug/L		102	75 - 125	2	20
Chromium	2.2	J	200	195		ug/L		97	75 - 125	2	20
Copper	<10		250	260		ug/L		104	75 - 125	1	20
Iron	1500		1000	2670		ug/L		117	75 - 125	4	20
Manganese	850		500	1370		ug/L		103	75 - 125	1	20
Selenium	<10		100	99.6		ug/L		100	75 - 125	1	20
Zinc	<20		500	524		ug/L		105	75 - 125	1	20

Lab Sample ID: 500-34763-1 DU
 Matrix: Water
 Analysis Batch: 115297

Client Sample ID: GW-052711-TP-014
 Prep Type: Total/NA
 Prep Batch: 115183

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Lead	<5.0		<5.0		ug/L		NC	20
Arsenic	<10		<10		ug/L		NC	20
Barium	430		437		ug/L		3	20
Cadmium	0.85	J	0.888	J	ug/L		4	20
Chromium	2.2	J	4.55	J	ug/L		70	20
Copper	<10		1.77	J	ug/L		NC	20
Iron	1500		1710		ug/L		13	20
Manganese	850		883		ug/L		4	20
Selenium	<10		<10		ug/L		NC	20
Zinc	<20		<20		ug/L		NC	20

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 500-116062/3
 Matrix: Water
 Analysis Batch: 116062

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<200		200	83	ug/L			05/27/11 16:59	1
Fluoride	<200		200	29	ug/L			05/27/11 16:59	1
Nitrate as N	<100		100	23	ug/L			05/27/11 16:59	1
Sulfate	<200		200	90	ug/L			05/27/11 16:59	1

Lab Sample ID: LCS 500-116062/4
 Matrix: Water
 Analysis Batch: 116062

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

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.	
							Added	Result
Chloride	3000	2710		ug/L		90	80 - 120	
Fluoride	1000	926		ug/L		93	80 - 120	
Nitrate as N	2000	1940		ug/L		97	80 - 120	
Sulfate	5000	4670		ug/L		93	80 - 120	

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-34763-1 MS
Matrix: Water
Analysis Batch: 116062

Client Sample ID: GW-052711-TP-014
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Fluoride	130	J	1000	760	F	ug/L		63	75 - 125

Lab Sample ID: 500-34763-1 MS
Matrix: Water
Analysis Batch: 116062

Client Sample ID: GW-052711-TP-014
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate as N	<1000		20000	19800		ug/L		99	75 - 125
Sulfate	40000		50000	81800		ug/L		84	75 - 125

Lab Sample ID: 500-34763-1 MSD
Matrix: Water
Analysis Batch: 116062

Client Sample ID: GW-052711-TP-014
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Fluoride	130	J	1000	763	F	ug/L		64	75 - 125	0	20

Lab Sample ID: 500-34763-1 MSD
Matrix: Water
Analysis Batch: 116062

Client Sample ID: GW-052711-TP-014
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrate as N	<1000		20000	20400		ug/L		102	75 - 125	3	20
Sulfate	40000		50000	81100		ug/L		83	75 - 125	1	20

Lab Sample ID: MB 500-116403/3
Matrix: Water
Analysis Batch: 116403

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<200		200	83	ug/L			06/13/11 19:51	1
Sulfate	<200		200	90	ug/L			06/13/11 19:51	1

Lab Sample ID: LCS 500-116403/4
Matrix: Water
Analysis Batch: 116403

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	3000	3070		ug/L		102	80 - 120
Sulfate	5000	5020		ug/L		100	80 - 120

Lab Sample ID: 500-34763-6 MS
Matrix: Water
Analysis Batch: 116403

Client Sample ID: GW-052711-TP-019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	220000		150000	382000		ug/L		111	75 - 125
Sulfate	190000		250000	447000		ug/L		104	75 - 125



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-34763-6 MSD
 Matrix: Water
 Analysis Batch: 116403

Client Sample ID: GW-052711-TP-019
 Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Chloride	220000		150000	383000		ug/L		111	75 - 125	0	20
Sulfate	190000		250000	453000		ug/L		107	75 - 125	1	20

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

Lab Sample ID: MB 500-115295/1
 Matrix: Water
 Analysis Batch: 115295

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10000		10000	9400	ug/L			06/02/11 22:35	1

Lab Sample ID: LCS 500-115295/2
 Matrix: Water
 Analysis Batch: 115295

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

Analyte	Spike Added	LCS	LCS	Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	
Total Dissolved Solids	250000	248000		ug/L		99	80 - 120	

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34763-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	ACCLASS	DoD ELAP	0	ADE-1429
TestAmerica Chicago	ACCLASS	ISO/IEC 17025	0	AT-1428
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Florida	NELAC	4	E871072
TestAmerica Chicago	Georgia	Georgia EPD	4	N/A
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	Kentucky UST	4	66
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina	North Carolina DENR	4	291
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	USDA	USDA	0	P330-09-00027
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q

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



CONESTOGA-ROVERS & ASSOCIATES 6520 Corporate Drive Indianapolis, Indiana 46278 (317) 291-7007 phone (317) 328-2666 fax			SHIPPED TO (Laboratory Name): <i>TA</i>			500-34763						
			REFERENCE NUMBER: 070102-3			PROJECT NAME: CAT Mapleto-FL						
CHAIN-OF-CUSTODY RECORD			SAMPLER'S SIGNATURE: <i>[Signature]</i>			PRINTED NAME: <i>Tim Pranger</i>						
			No. OF CONTAINERS			PARAMETERS <i>Selected Metals</i> TDS, NO ₃ Cl, F, SO ₄			REMARKS			
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS							
1	5/27/11	810	GW-052711-TP-04	Water	2	X	X	X				
2		815	↓	↓	2	X	X	X				
3		900	↓	↓	2	X	X	X				
4		1015	↓	↓	2	X	X	X				
5		1035	↓	↓	2	X	X	X				
6	5/27/11	1055	GW-052711-TP-019	Water	2	X	X	X				
TOTAL NUMBER OF CONTAINERS					12							
RELINQUISHED BY: <i>[Signature]</i>			DATE: 5/27/11 TIME: 1200			RECEIVED BY: <i>[Signature]</i>			DATE: _____ TIME: _____			
RELINQUISHED BY: ②			DATE: _____ TIME: _____			RECEIVED BY: ③			DATE: _____ TIME: _____			
RELINQUISHED BY: ③			DATE: _____ TIME: _____			RECEIVED BY: ④			DATE: _____ TIME: _____			
METHOD OF SHIPMENT: <i>FedEx</i>						TRACKING No. 8724 2398 4504						
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy			SAMPLE TEAM: <i>Stim Boland</i> <i>Tim Pranger</i>			RECEIVED FOR LABORATORY BY: <i>[Signature]</i>			2406			
						DATE: 5/28/11 TIME: 0910						

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 500-34763-1

Login Number: 34763

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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	4.0
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-35852-1
Client Project/Site: Caterpillar-Mapleton 817 Landfill

For:
Conestoga-Rovers & Associates, Inc.
6520 Corporate Drive
Indianapolis, Indiana 46278

Attn: Mr. Michael Richardson



Authorized for release by:
06/28/2011 12:36:40 PM

Richard Wright
Project Manager II
richard.wright@testamericainc.com



LINKS

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results through
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www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

Job ID: 500-35852-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-35852-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

No analytical or quality issues were noted.

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

Client Sample ID: WL-062211-JB-001

Lab Sample ID: 500-35852-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1500000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: WL-062211-JB-002

Lab Sample ID: 500-35852-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	790000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: WL-062211-JB-003

Lab Sample ID: 500-35852-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	950000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: WL-062211-JB-004

Lab Sample ID: 500-35852-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1100000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: WL-062211-JB-005

Lab Sample ID: 500-35852-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	750000		10000	9400	ug/L	1		SM 2540C	Total/NA

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

Method	Method Description	Protocol	Laboratory
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-35852-1	WL-062211-JB-001	Water	06/22/11 12:40	06/24/11 10:30
500-35852-2	WL-062211-JB-002	Water	06/22/11 12:50	06/24/11 10:30
500-35852-3	WL-062211-JB-003	Water	06/22/11 13:00	06/24/11 10:30
500-35852-4	WL-062211-JB-004	Water	06/22/11 13:10	06/24/11 10:30
500-35852-5	WL-062211-JB-005	Water	06/22/11 13:15	06/24/11 10:30

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

Client Sample ID: WL-062211-JB-001

Lab Sample ID: 500-35852-1

Date Collected: 06/22/11 12:40

Matrix: Water

Date Received: 06/24/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500000		10000	9400	ug/L			06/26/11 23:00	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

Client Sample ID: WL-062211-JB-002

Lab Sample ID: 500-35852-2

Date Collected: 06/22/11 12:50

Matrix: Water

Date Received: 06/24/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	790000		10000	9400	ug/L			06/26/11 23:03	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

Client Sample ID: WL-062211-JB-003

Lab Sample ID: 500-35852-3

Date Collected: 06/22/11 13:00

Matrix: Water

Date Received: 06/24/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	950000		10000	9400	ug/L			06/26/11 23:05	1

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

Client Sample ID: WL-062211-JB-004

Lab Sample ID: 500-35852-4

Date Collected: 06/22/11 13:10

Matrix: Water

Date Received: 06/24/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100000		10000	9400	ug/L			06/26/11 23:08	1

- 1
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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

Client Sample ID: WL-062211-JB-005

Lab Sample ID: 500-35852-5

Date Collected: 06/22/11 13:15

Matrix: Water

Date Received: 06/24/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	750000		10000	9400	ug/L			06/26/11 23:11	1

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

General Chemistry

Analysis Batch: 117749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-117749/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-117749/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-35852-1	WL-062211-JB-001	Total/NA	Water	SM 2540C	
500-35852-2	WL-062211-JB-002	Total/NA	Water	SM 2540C	
500-35852-3	WL-062211-JB-003	Total/NA	Water	SM 2540C	
500-35852-4	WL-062211-JB-004	Total/NA	Water	SM 2540C	
500-35852-5	WL-062211-JB-005	Total/NA	Water	SM 2540C	

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

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

Lab Sample ID: MB 500-117749/1
 Matrix: Water
 Analysis Batch: 117749

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10000		10000	9400	ug/L			06/26/11 22:15	1

Lab Sample ID: LCS 500-117749/2
 Matrix: Water
 Analysis Batch: 117749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits

- 1
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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-35852-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	ACCLASS	DoD ELAP		ADE-1429
TestAmerica Chicago	ACCLASS	ISO/IEC 17025		AT-1428
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Florida	NELAC	4	E871072
TestAmerica Chicago	Georgia	Georgia EPD	4	N/A
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	Kentucky UST	4	66
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina	North Carolina DENR	4	291
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	USDA	USDA		P330-09-00027
TestAmerica Chicago	Virginia	NELAC Secondary AB	3	460142
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q

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



CONESTOGA-ROVERS & ASSOCIATES 6520 Corporate Drive Indianapolis, Indiana 46278 (317) 291-7007 phone (317) 328-2666 fax		SHIPPED TO (Laboratory Name): Test America Chicago		500-35862				
		REFERENCE NUMBER: C70102-03		PROJECT NAME: CAT-Mapleton				
CHAIN-OF-CUSTODY RECORD								
SAMPLER'S SIGNATURE: _____			PRINTED NAME: _____					
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS	
						TDS		
1	6-22-11	12:40	WL-062211-SB-001	Water	1		2 Day TAT!	
2	6-22-11	12:50	WL-062211-SB-002	Water	1			
3	6-22-11	12:00	WL-062211-SB-003	Water	1			
4	6-22-11	13:10	WL-062211-SB-004	Water	1			
5	6-22-11	13:15	WL-062211-SB-005	Water	1			
TOTAL NUMBER OF CONTAINERS					5			
RELINQUISHED BY: ① <i>[Signature]</i>			DATE: 06-22-11 TIME: 19:00		RECEIVED BY: ② _____		DATE: _____ TIME: _____	
RELINQUISHED BY: ② _____			DATE: _____ TIME: _____		RECEIVED BY: ③ _____		DATE: _____ TIME: _____	
RELINQUISHED BY: ③ _____			DATE: _____ TIME: _____		RECEIVED BY: ④ _____		DATE: _____ TIME: _____	
METHOD OF SHIPMENT: Fed Ex				TRACKING No. 8724 2115 2990				
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy			SAMPLE TEAM: J. Baker		RECEIVED FOR LABORATORY BY: <i>[Signature]</i> DATE: 6/24/11 TIME: 1030			2553

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Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 500-35852-1

Login Number: 35852

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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	3.3
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-4157-1
Client Project/Site: 070102 CAT - Mapleton, IL

For:
Conestoga-Rovers & Associates, Inc.
6520 Corporate Drive
Indianapolis, Indiana 46278

Attn: Mr. Michael Richardson



Authorized for release by:
09/30/2011 10:36:01 AM

Amy McCormick
Project Manager II
amy.mccormick@testamericainc.com



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www.testamericainc.com

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

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Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

Job ID: 240-4157-1**Laboratory: TestAmerica North Canton****Narrative****CASE NARRATIVE****Client: Conestoga-Rovers & Associates, Inc.****Project: 070102 CAT - Mapleton, IL****Report Number: 240-4157-1**

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

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

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

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

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

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

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

RECEIPT

The samples were received on 09/23/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2 C.

TOTAL DISSOLVED SOLIDS

Samples GW-092211-TP-001 (240-4157-1), GW-092211-TP-002 (240-4157-2), GW-092211-TP-003 (240-4157-3), GW-092211-TP-004 (240-4157-4), GW-092211-TP-005 (240-4157-5), GW-092211-TP-006 (240-4157-6) and GW-092211-TP-007 (240-4157-7) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 09/28/2011.

Samples GW-092211-TP-002 (240-4157-2)[2X], GW-092211-TP-005 (240-4157-5)[2X], GW-092211-TP-006 (240-4157-6)[2X] and GW-092211-TP-007 (240-4157-7)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the TDS analyses.

All quality control parameters were within the acceptance limits.

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

Method	Method Description	Protocol	Laboratory
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL NC

Protocol References:

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

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-4157-1	GW-092211-TP-001	Water	09/22/11 08:39	09/23/11 09:30
240-4157-2	GW-092211-TP-002	Water	09/22/11 08:45	09/23/11 09:30
240-4157-3	GW-092211-TP-003	Water	09/22/11 09:31	09/23/11 09:30
240-4157-4	GW-092211-TP-004	Water	09/22/11 10:30	09/23/11 09:30
240-4157-5	GW-092211-TP-005	Water	09/22/11 10:40	09/23/11 09:30
240-4157-6	GW-092211-TP-006	Water	09/22/11 10:50	09/23/11 09:30
240-4157-7	GW-092211-TP-007	Water	09/22/11 10:53	09/23/11 09:30

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

Client Sample ID: GW-092211-TP-001

Lab Sample ID: 240-4157-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	840		10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: GW-092211-TP-002

Lab Sample ID: 240-4157-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1300		20	mg/L	2		SM 2540C	Total/NA

Client Sample ID: GW-092211-TP-003

Lab Sample ID: 240-4157-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	750		10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: GW-092211-TP-004

Lab Sample ID: 240-4157-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1000		10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: GW-092211-TP-005

Lab Sample ID: 240-4157-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1500		20	mg/L	2		SM 2540C	Total/NA

Client Sample ID: GW-092211-TP-006

Lab Sample ID: 240-4157-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	870		20	mg/L	2		SM 2540C	Total/NA

Client Sample ID: GW-092211-TP-007

Lab Sample ID: 240-4157-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	920		20	mg/L	2		SM 2540C	Total/NA

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

Client Sample ID: GW-092211-TP-001

Lab Sample ID: 240-4157-1

Date Collected: 09/22/11 08:39
 Date Received: 09/23/11 09:30

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	840		10	mg/L			09/28/11 09:33	1

Client Sample ID: GW-092211-TP-002

Lab Sample ID: 240-4157-2

Date Collected: 09/22/11 08:45
 Date Received: 09/23/11 09:30

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		20	mg/L			09/28/11 09:33	2

Client Sample ID: GW-092211-TP-003

Lab Sample ID: 240-4157-3

Date Collected: 09/22/11 09:31
 Date Received: 09/23/11 09:30

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	750		10	mg/L			09/28/11 09:33	1

Client Sample ID: GW-092211-TP-004

Lab Sample ID: 240-4157-4

Date Collected: 09/22/11 10:30
 Date Received: 09/23/11 09:30

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10	mg/L			09/28/11 09:33	1

Client Sample ID: GW-092211-TP-005

Lab Sample ID: 240-4157-5

Date Collected: 09/22/11 10:40
 Date Received: 09/23/11 09:30

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		20	mg/L			09/28/11 09:33	2

Client Sample ID: GW-092211-TP-006

Lab Sample ID: 240-4157-6

Date Collected: 09/22/11 10:50
 Date Received: 09/23/11 09:30

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	870		20	mg/L			09/28/11 09:33	2

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

Client Sample ID: GW-092211-TP-007

Lab Sample ID: 240-4157-7

Date Collected: 09/22/11 10:53

Matrix: Water

Date Received: 09/23/11 09:30

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	920		20	mg/L			09/28/11 09:33	2

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QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

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

Lab Sample ID: MB 240-17032/1
 Matrix: Water
 Analysis Batch: 17032

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			09/28/11 09:33	1

Lab Sample ID: LCS 240-17032/2
 Matrix: Water
 Analysis Batch: 17032

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	354	332		mg/L		94	88 - 110

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QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

General Chemistry

Analysis Batch: 17032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-4157-1	GW-092211-TP-001	Total/NA	Water	SM 2540C	
240-4157-2	GW-092211-TP-002	Total/NA	Water	SM 2540C	
240-4157-3	GW-092211-TP-003	Total/NA	Water	SM 2540C	
240-4157-4	GW-092211-TP-004	Total/NA	Water	SM 2540C	
240-4157-5	GW-092211-TP-005	Total/NA	Water	SM 2540C	
240-4157-6	GW-092211-TP-006	Total/NA	Water	SM 2540C	
240-4157-7	GW-092211-TP-007	Total/NA	Water	SM 2540C	
LCS 240-17032/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-17032/1	Method Blank	Total/NA	Water	SM 2540C	

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Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

Client Sample ID: GW-092211-TP-001

Lab Sample ID: 240-4157-1

Date Collected: 09/22/11 08:39

Matrix: Water

Date Received: 09/23/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	17032	09/28/11 09:33	AM	TAL NC

Client Sample ID: GW-092211-TP-002

Lab Sample ID: 240-4157-2

Date Collected: 09/22/11 08:45

Matrix: Water

Date Received: 09/23/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		2	17032	09/28/11 09:33	AM	TAL NC

Client Sample ID: GW-092211-TP-003

Lab Sample ID: 240-4157-3

Date Collected: 09/22/11 09:31

Matrix: Water

Date Received: 09/23/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	17032	09/28/11 09:33	AM	TAL NC

Client Sample ID: GW-092211-TP-004

Lab Sample ID: 240-4157-4

Date Collected: 09/22/11 10:30

Matrix: Water

Date Received: 09/23/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	17032	09/28/11 09:33	AM	TAL NC

Client Sample ID: GW-092211-TP-005

Lab Sample ID: 240-4157-5

Date Collected: 09/22/11 10:40

Matrix: Water

Date Received: 09/23/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		2	17032	09/28/11 09:33	AM	TAL NC

Client Sample ID: GW-092211-TP-006

Lab Sample ID: 240-4157-6

Date Collected: 09/22/11 10:50

Matrix: Water

Date Received: 09/23/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		2	17032	09/28/11 09:33	AM	TAL NC

Client Sample ID: GW-092211-TP-007

Lab Sample ID: 240-4157-7

Date Collected: 09/22/11 10:53

Matrix: Water

Date Received: 09/23/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		2	17032	09/28/11 09:33	AM	TAL NC

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 070102 CAT - Mapleton, IL

TestAmerica Job ID: 240-4157-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACCLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-11-00328
TestAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

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

CONESTOGA-ROVERS & ASSOCIATES
 6520 Corporate Drive
 Indianapolis, Indiana 46278
 (317) 291-7007 phone
 (317) 328-2666 fax

SHIPPED TO
 (Laboratory Name): *TES of America*

REFERENCE NUMBER:
 070102

PROJECT NAME:
 CAT - Mapleton, FC

CHAIN-OF-CUSTODY RECORD

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: *Tim Pranger*

PARAMETERS
AS

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	REMARKS
1	9/22/11	8:59	650-092211-TP-001	Water	1	
2		8:55	-002		1	
3		9:31	-003		1	
4		10:30	-004		1	
5		10:40	-005		1	
6		10:50	-006		1	
7	9/22/11	10:53	650-092211-TP-007	Water	1	
TOTAL NUMBER OF CONTAINERS						7

RELINQUISHED BY: <i>[Signature]</i>	DATE: 9/22/11	RECEIVED BY: <i>[Signature]</i>	DATE: _____
	TIME: 17:00		TIME: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____
	TIME: _____		TIME: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____
	TIME: _____		TIME: _____

METHOD OF SHIPMENT: *FedEx* TRACKING No. *8724 2398 4401*

RECEIVED FOR LABORATORY BY: *[Signature]*
 DATE: *9-23-11* TIME: *9:30*

SAMPLE TEAM:
Tim Pranger
Nick Hill

2619



TestAmerica Cooler Receipt Form/Narrative

Lot Number: _____

North Canton Facility

Client CRA Project CAT Madleton 12 By Barbara Gausmyt
 Cooler Received on 9/23/11 Opened on 9/23/11 (Signature)
 FedEx UPS DHL FAS Stetson Client Drop Off TestAmerica Courier Other _____
 TestAmerica Cooler # 4096 Multiple Coolers Foam Box Client Cooler Other _____
 1. Were custody seals on the outside of the cooler(s)? Yes No Intact? Yes No NA
 If YES, Quantity _____ Quantity Unsalvageable _____
 Were custody seals on the outside of cooler(s) signed and dated? Yes No NA
 Were custody seals on the bottle(s)? Yes No
 If YES, are there any exceptions? _____
 2. Shippers' packing slip attached to the cooler(s)? Yes No
 3. Did custody papers accompany the sample(s)? Yes No Relinquished by client? Yes No
 4. Were the custody papers signed in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other _____
 6. Cooler temperature upon receipt 3.2 °C See back of form for multiple coolers/temps
 METHOD: IR Other
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels be reconciled with the COC? Yes No
 9. Were sample(s) at the correct pH upon receipt? Yes No NA
 10. Were correct bottle(s) used for the test(s) indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
 13. Was a trip blank present in the cooler(s)? Yes No Were VOAs on the COC? Yes No
 Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
 Concerning _____

14 CHAIN OF CUSTODY

The following discrepancies occurred:

15 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16 SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-4157-1

Login Number: 4157

List Source: TestAmerica North Canton

List Number: 1

Creator: Fausnight, Barb

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	3.2
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

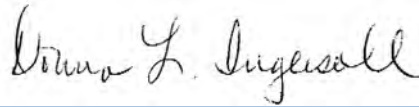
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-40518-1
Client Project/Site: Mapleton Landfill

For:
Caterpillar Inc.
8826 W. Route 24
Mapleton, Illinois 61547

Attn: Mr. Dennis Riehl



Authorized for release by:
11/03/2011 09:21:40 AM

Donna Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com



LINKS

Review your project results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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Case Narrative

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Job ID: 500-40518-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-40518-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 129797 exceeded control limits for the following analytes: Vinyl Chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene and Chloroform.

Method(s) 8260B: The following sample(s) was diluted due to the abundance of non-target analytes: L302 (500-40518-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.



Detection Summary

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L301

Lab Sample ID: 500-40518-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.10		0.010		mg/L	1		6010B	Total/NA
Iron	4.2		0.20		mg/L	1		6010B	Total/NA
Manganese	0.13		0.010		mg/L	1		6010B	Total/NA
Arsenic	0.0013		0.0010		mg/L	1		6020	Total Recovers
Sulfate	68		20		mg/L	4		9038	Total/NA
Chloride	110		10		mg/L	5		9251	Total/NA
Fluoride	2.8		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: L302

Lab Sample ID: 500-40518-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	29		2.5		ug/L	5		8260B	Total/NA
Barium	0.092		0.010		mg/L	1		6010B	Total/NA
Iron	3.8		0.20		mg/L	1		6010B	Total/NA
Manganese	0.043		0.010		mg/L	1		6010B	Total/NA
Arsenic	0.0058		0.0010		mg/L	1		6020	Total Recovers
Sulfate	86		20		mg/L	4		9038	Total/NA
Chloride	510		50		mg/L	25		9251	Total/NA
Total Dissolved Solids	2200		10		mg/L	1		SM 2540C	Total/NA
Fluoride	2.5		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: L303R

Lab Sample ID: 500-40518-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.039		0.010		mg/L	1		6010B	Total/NA
Iron	1.3		0.20		mg/L	1		6010B	Total/NA
Manganese	0.25		0.010		mg/L	1		6010B	Total/NA
Arsenic	0.0015		0.0010		mg/L	1		6020	Total Recovers
Sulfate	160		50		mg/L	10		9038	Total/NA
Chloride	15		2.0		mg/L	1		9251	Total/NA
Total Dissolved Solids	950		10		mg/L	1		SM 2540C	Total/NA
Fluoride	2.5		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: L304R

Lab Sample ID: 500-40518-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.031		0.010		mg/L	1		6010B	Total/NA
Iron	0.29		0.20		mg/L	1		6010B	Total/NA
Manganese	0.074		0.010		mg/L	1		6010B	Total/NA
Arsenic	0.0024		0.0010		mg/L	1		6020	Total Recovers
Cadmium	0.00069		0.00050		mg/L	1		6020	Total Recovers
Sulfate	86		20		mg/L	4		9038	Total/NA
Chloride	110		10		mg/L	5		9251	Total/NA
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Total/NA
Fluoride	7.7		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: L305

Lab Sample ID: 500-40518-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.018		0.010		mg/L	1		6010B	Total/NA
Manganese	0.071		0.010		mg/L	1		6010B	Total/NA
Arsenic	0.0017		0.0010		mg/L	1		6020	Total Recovers
Sulfate	140		40		mg/L	8		9038	Total/NA
Chloride	260		50		mg/L	25		9251	Total/NA

Detection Summary

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L305 (Continued)

Lab Sample ID: 500-40518-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1500		10		mg/L	1		SM 2540C	Total/NA
Fluoride	3.1		0.10		mg/L	1		SM 4500 F C	Total/NA

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Method Summary

Client: Caterpillar Inc.

TestAmerica Job ID: 500-40518-1

Project/Site: Mapleton Landfill

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020	Metals (ICP/MS)	SW846	TAL CHI
9038	Sulfate, Turbidimetric	SW846	TAL CHI
9251	Chloride	SW846	TAL CHI
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 NO2 B	Nitrogen, Nitrite	SM	TAL CHI
SM 4500 NO3 F	Nitrogen, Nitrate	SM	TAL CHI

Protocol References:

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 CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Caterpillar Inc.

TestAmerica Job ID: 500-40518-1

Project/Site: Mapleton Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-40518-1	L301	Water	10/10/11 15:20	10/12/11 10:30
500-40518-2	L302	Water	10/11/11 11:05	10/12/11 10:30
500-40518-3	L303R	Water	10/11/11 11:40	10/12/11 10:30
500-40518-4	L304R	Water	10/11/11 09:15	10/12/11 10:30
500-40518-5	L305	Water	10/10/11 16:45	10/12/11 10:30

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Client Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L301

Lab Sample ID: 500-40518-1

Date Collected: 10/10/11 15:20

Matrix: Water

Date Received: 10/12/11 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	0.50		ug/L			10/21/11 19:50	1
1,1-Dichloroethene	ND	*	1.0		ug/L			10/21/11 19:50	1
trans-1,2-Dichloroethene	ND	*	1.0		ug/L			10/21/11 19:50	1
cis-1,2-Dichloroethene	ND	*	1.0		ug/L			10/21/11 19:50	1
Chloroform	ND	*	1.0		ug/L			10/21/11 19:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/11 19:50	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/11 19:50	1
Benzene	ND		0.50		ug/L			10/21/11 19:50	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/11 19:50	1
Trichloroethene	ND		0.50		ug/L			10/21/11 19:50	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/11 19:50	1
Bromodichloromethane	ND		1.0		ug/L			10/21/11 19:50	1
Toluene	ND		0.50		ug/L			10/21/11 19:50	1
Tetrachloroethene	ND		1.0		ug/L			10/21/11 19:50	1
Dibromochloromethane	ND		1.0		ug/L			10/21/11 19:50	1
Chlorobenzene	ND		1.0		ug/L			10/21/11 19:50	1
Ethylbenzene	ND		0.50		ug/L			10/21/11 19:50	1
Xylenes, Total	ND		1.0		ug/L			10/21/11 19:50	1
Styrene	ND		1.0		ug/L			10/21/11 19:50	1
Bromoform	ND		1.0		ug/L			10/21/11 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 124		10/21/11 19:50	1
Toluene-d8 (Surr)	97		80 - 121		10/21/11 19:50	1
4-Bromofluorobenzene (Surr)	93		77 - 112		10/21/11 19:50	1
Dibromofluoromethane	112		78 - 119		10/21/11 19:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.10		0.010		mg/L		10/12/11 16:10	10/13/11 09:52	1
Chromium	ND		0.010		mg/L		10/12/11 16:10	10/13/11 09:52	1
Copper	ND		0.010		mg/L		10/12/11 16:10	10/13/11 09:52	1
Iron	4.2		0.20		mg/L		10/12/11 16:10	10/13/11 09:52	1
Manganese	0.13		0.010		mg/L		10/12/11 16:10	10/13/11 09:52	1
Zinc	ND		0.020		mg/L		10/12/11 16:10	10/13/11 09:52	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 11:51	1
Arsenic	0.0013		0.0010		mg/L		10/12/11 16:10	10/14/11 11:51	1
Cadmium	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 11:51	1
Selenium	ND		0.0025		mg/L		10/12/11 16:10	10/14/11 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	68		20		mg/L			10/27/11 04:49	4
Chloride	110		10		mg/L			10/28/11 08:41	5
Nitrogen, Nitrate	ND		0.10		mg/L			11/02/11 13:47	1
Total Dissolved Solids	ND		10		mg/L			10/17/11 22:17	1
Fluoride	2.8		0.10		mg/L			10/18/11 14:47	1
Nitrogen, Nitrite	ND		0.020		mg/L			10/12/11 14:18	1

Client Sample Results

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L301

Lab Sample ID: 500-40518-1

Date Collected: 10/10/11 15:20

Matrix: Water

Date Received: 10/12/11 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			11/01/11 18:10	1

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Client Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L302

Lab Sample ID: 500-40518-2

Date Collected: 10/11/11 11:05

Matrix: Water

Date Received: 10/12/11 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	2.5		ug/L			10/21/11 20:14	5
1,1-Dichloroethene	ND	*	5.0		ug/L			10/21/11 20:14	5
trans-1,2-Dichloroethene	ND	*	5.0		ug/L			10/21/11 20:14	5
cis-1,2-Dichloroethene	ND	*	5.0		ug/L			10/21/11 20:14	5
Chloroform	ND	*	5.0		ug/L			10/21/11 20:14	5
1,1,1-Trichloroethane	ND		5.0		ug/L			10/21/11 20:14	5
Carbon tetrachloride	ND		5.0		ug/L			10/21/11 20:14	5
Benzene	29		2.5		ug/L			10/21/11 20:14	5
1,2-Dichloroethane	ND		5.0		ug/L			10/21/11 20:14	5
Trichloroethene	ND		2.5		ug/L			10/21/11 20:14	5
1,2-Dichloropropane	ND		5.0		ug/L			10/21/11 20:14	5
Bromodichloromethane	ND		5.0		ug/L			10/21/11 20:14	5
Toluene	ND		2.5		ug/L			10/21/11 20:14	5
Tetrachloroethene	ND		5.0		ug/L			10/21/11 20:14	5
Dibromochloromethane	ND		5.0		ug/L			10/21/11 20:14	5
Chlorobenzene	ND		5.0		ug/L			10/21/11 20:14	5
Ethylbenzene	ND		2.5		ug/L			10/21/11 20:14	5
Xylenes, Total	ND		5.0		ug/L			10/21/11 20:14	5
Styrene	ND		5.0		ug/L			10/21/11 20:14	5
Bromoform	ND		5.0		ug/L			10/21/11 20:14	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		77 - 124		10/21/11 20:14	5
Toluene-d8 (Surr)	102		80 - 121		10/21/11 20:14	5
4-Bromofluorobenzene (Surr)	96		77 - 112		10/21/11 20:14	5
Dibromofluoromethane	118		78 - 119		10/21/11 20:14	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.092		0.010		mg/L		10/12/11 16:10	10/13/11 09:57	1
Chromium	ND		0.010		mg/L		10/12/11 16:10	10/13/11 09:57	1
Copper	ND		0.010		mg/L		10/12/11 16:10	10/13/11 09:57	1
Iron	3.8		0.20		mg/L		10/12/11 16:10	10/13/11 09:57	1
Manganese	0.043		0.010		mg/L		10/12/11 16:10	10/13/11 09:57	1
Zinc	ND		0.020		mg/L		10/12/11 16:10	10/13/11 09:57	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 11:54	1
Arsenic	0.0058		0.0010		mg/L		10/12/11 16:10	10/14/11 11:54	1
Cadmium	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 11:54	1
Selenium	ND		0.0025		mg/L		10/12/11 16:10	10/14/11 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	86		20		mg/L			10/27/11 04:43	4
Chloride	510		50		mg/L			10/28/11 08:55	25
Nitrogen, Nitrate	ND		0.10		mg/L			11/02/11 13:49	1
Total Dissolved Solids	2200		10		mg/L			10/17/11 22:19	1
Fluoride	2.5		0.10		mg/L			10/18/11 14:50	1
Nitrogen, Nitrite	ND		0.020		mg/L			10/12/11 14:18	1

Client Sample Results

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L302

Lab Sample ID: 500-40518-2

Date Collected: 10/11/11 11:05

Matrix: Water

Date Received: 10/12/11 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			11/01/11 18:12	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L303R

Lab Sample ID: 500-40518-3

Date Collected: 10/11/11 11:40

Matrix: Water

Date Received: 10/12/11 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	0.50		ug/L			10/21/11 20:37	1
1,1-Dichloroethene	ND	*	1.0		ug/L			10/21/11 20:37	1
trans-1,2-Dichloroethene	ND	*	1.0		ug/L			10/21/11 20:37	1
cis-1,2-Dichloroethene	ND	*	1.0		ug/L			10/21/11 20:37	1
Chloroform	ND	*	1.0		ug/L			10/21/11 20:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/11 20:37	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/11 20:37	1
Benzene	ND		0.50		ug/L			10/21/11 20:37	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/11 20:37	1
Trichloroethene	ND		0.50		ug/L			10/21/11 20:37	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/11 20:37	1
Bromodichloromethane	ND		1.0		ug/L			10/21/11 20:37	1
Toluene	ND		0.50		ug/L			10/21/11 20:37	1
Tetrachloroethene	ND		1.0		ug/L			10/21/11 20:37	1
Dibromochloromethane	ND		1.0		ug/L			10/21/11 20:37	1
Chlorobenzene	ND		1.0		ug/L			10/21/11 20:37	1
Ethylbenzene	ND		0.50		ug/L			10/21/11 20:37	1
Xylenes, Total	ND		1.0		ug/L			10/21/11 20:37	1
Styrene	ND		1.0		ug/L			10/21/11 20:37	1
Bromoform	ND		1.0		ug/L			10/21/11 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 124		10/21/11 20:37	1
Toluene-d8 (Surr)	97		80 - 121		10/21/11 20:37	1
4-Bromofluorobenzene (Surr)	93		77 - 112		10/21/11 20:37	1
Dibromofluoromethane	113		78 - 119		10/21/11 20:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.039		0.010		mg/L		10/12/11 16:10	10/13/11 10:10	1
Chromium	ND		0.010		mg/L		10/12/11 16:10	10/13/11 10:10	1
Copper	ND		0.010		mg/L		10/12/11 16:10	10/13/11 10:10	1
Iron	1.3		0.20		mg/L		10/12/11 16:10	10/13/11 10:10	1
Manganese	0.25		0.010		mg/L		10/12/11 16:10	10/13/11 10:10	1
Zinc	ND		0.020		mg/L		10/12/11 16:10	10/13/11 10:10	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 11:57	1
Arsenic	0.0015		0.0010		mg/L		10/12/11 16:10	10/14/11 11:57	1
Cadmium	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 11:57	1
Selenium	ND		0.0025		mg/L		10/12/11 16:10	10/14/11 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	160		50		mg/L			10/27/11 04:50	10
Chloride	15		2.0		mg/L			10/28/11 08:24	1
Nitrogen, Nitrate	ND		0.10		mg/L			11/02/11 13:49	1
Total Dissolved Solids	950		10		mg/L			10/17/11 22:21	1
Fluoride	2.5		0.10		mg/L			10/18/11 14:53	1
Nitrogen, Nitrite	ND		0.020		mg/L			10/12/11 14:19	1

Client Sample Results

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L303R
Date Collected: 10/11/11 11:40
Date Received: 10/12/11 10:30

Lab Sample ID: 500-40518-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			11/01/11 18:14	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L304R

Lab Sample ID: 500-40518-4

Date Collected: 10/11/11 09:15

Matrix: Water

Date Received: 10/12/11 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	0.50		ug/L			10/21/11 21:00	1
1,1-Dichloroethene	ND	*	1.0		ug/L			10/21/11 21:00	1
trans-1,2-Dichloroethene	ND	*	1.0		ug/L			10/21/11 21:00	1
cis-1,2-Dichloroethene	ND	*	1.0		ug/L			10/21/11 21:00	1
Chloroform	ND	*	1.0		ug/L			10/21/11 21:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/11 21:00	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/11 21:00	1
Benzene	ND		0.50		ug/L			10/21/11 21:00	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/11 21:00	1
Trichloroethene	ND		0.50		ug/L			10/21/11 21:00	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/11 21:00	1
Bromodichloromethane	ND		1.0		ug/L			10/21/11 21:00	1
Toluene	ND		0.50		ug/L			10/21/11 21:00	1
Tetrachloroethene	ND		1.0		ug/L			10/21/11 21:00	1
Dibromochloromethane	ND		1.0		ug/L			10/21/11 21:00	1
Chlorobenzene	ND		1.0		ug/L			10/21/11 21:00	1
Ethylbenzene	ND		0.50		ug/L			10/21/11 21:00	1
Xylenes, Total	ND		1.0		ug/L			10/21/11 21:00	1
Styrene	ND		1.0		ug/L			10/21/11 21:00	1
Bromoform	ND		1.0		ug/L			10/21/11 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 124		10/21/11 21:00	1
Toluene-d8 (Surr)	97		80 - 121		10/21/11 21:00	1
4-Bromofluorobenzene (Surr)	93		77 - 112		10/21/11 21:00	1
Dibromofluoromethane	110		78 - 119		10/21/11 21:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.031		0.010		mg/L		10/12/11 16:10	10/13/11 10:14	1
Chromium	ND		0.010		mg/L		10/12/11 16:10	10/13/11 10:14	1
Copper	ND		0.010		mg/L		10/12/11 16:10	10/13/11 10:14	1
Iron	0.29		0.20		mg/L		10/12/11 16:10	10/13/11 10:14	1
Manganese	0.074		0.010		mg/L		10/12/11 16:10	10/13/11 10:14	1
Zinc	ND		0.020		mg/L		10/12/11 16:10	10/13/11 10:14	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 12:05	1
Arsenic	0.0024		0.0010		mg/L		10/12/11 16:10	10/14/11 12:05	1
Cadmium	0.00069		0.00050		mg/L		10/12/11 16:10	10/14/11 12:05	1
Selenium	ND		0.0025		mg/L		10/12/11 16:10	10/14/11 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	86		20		mg/L			10/27/11 04:51	4
Chloride	110		10		mg/L			11/02/11 11:22	5
Nitrogen, Nitrate	ND		0.10		mg/L			11/02/11 13:49	1
Total Dissolved Solids	1100		10		mg/L			10/17/11 22:24	1
Fluoride	7.7		0.10		mg/L			10/18/11 14:57	1
Nitrogen, Nitrite	ND		0.020		mg/L			10/12/11 14:20	1

Client Sample Results

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L304R
Date Collected: 10/11/11 09:15
Date Received: 10/12/11 10:30

Lab Sample ID: 500-40518-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			11/01/11 18:16	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L305

Lab Sample ID: 500-40518-5

Date Collected: 10/10/11 16:45

Matrix: Water

Date Received: 10/12/11 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	0.50		ug/L			10/21/11 21:24	1
1,1-Dichloroethene	ND	*	1.0		ug/L			10/21/11 21:24	1
trans-1,2-Dichloroethene	ND	*	1.0		ug/L			10/21/11 21:24	1
cis-1,2-Dichloroethene	ND	*	1.0		ug/L			10/21/11 21:24	1
Chloroform	ND	*	1.0		ug/L			10/21/11 21:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/11 21:24	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/11 21:24	1
Benzene	ND		0.50		ug/L			10/21/11 21:24	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/11 21:24	1
Trichloroethene	ND		0.50		ug/L			10/21/11 21:24	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/11 21:24	1
Bromodichloromethane	ND		1.0		ug/L			10/21/11 21:24	1
Toluene	ND		0.50		ug/L			10/21/11 21:24	1
Tetrachloroethene	ND		1.0		ug/L			10/21/11 21:24	1
Dibromochloromethane	ND		1.0		ug/L			10/21/11 21:24	1
Chlorobenzene	ND		1.0		ug/L			10/21/11 21:24	1
Ethylbenzene	ND		0.50		ug/L			10/21/11 21:24	1
Xylenes, Total	ND		1.0		ug/L			10/21/11 21:24	1
Styrene	ND		1.0		ug/L			10/21/11 21:24	1
Bromoform	ND		1.0		ug/L			10/21/11 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 124		10/21/11 21:24	1
Toluene-d8 (Surr)	101		80 - 121		10/21/11 21:24	1
4-Bromofluorobenzene (Surr)	97		77 - 112		10/21/11 21:24	1
Dibromofluoromethane	112		78 - 119		10/21/11 21:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.018		0.010		mg/L		10/12/11 16:10	10/13/11 10:20	1
Chromium	ND		0.010		mg/L		10/12/11 16:10	10/13/11 10:20	1
Copper	ND		0.010		mg/L		10/12/11 16:10	10/13/11 10:20	1
Iron	ND		0.20		mg/L		10/12/11 16:10	10/13/11 10:20	1
Manganese	0.071		0.010		mg/L		10/12/11 16:10	10/13/11 10:20	1
Zinc	ND		0.020		mg/L		10/12/11 16:10	10/13/11 10:20	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 12:07	1
Arsenic	0.0017		0.0010		mg/L		10/12/11 16:10	10/14/11 12:07	1
Cadmium	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 12:07	1
Selenium	ND		0.0025		mg/L		10/12/11 16:10	10/14/11 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	140		40		mg/L			10/27/11 04:52	8
Chloride	260		50		mg/L			11/02/11 11:23	25
Nitrogen, Nitrate	ND		0.10		mg/L			11/02/11 13:49	1
Total Dissolved Solids	1500		10		mg/L			10/17/11 22:26	1
Fluoride	3.1		0.10		mg/L			10/18/11 15:00	1
Nitrogen, Nitrite	ND		0.020		mg/L			10/12/11 14:21	1

Client Sample Results

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Client Sample ID: L305

Lab Sample ID: 500-40518-5

Date Collected: 10/10/11 16:45

Matrix: Water

Date Received: 10/12/11 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			11/01/11 18:19	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

GC/MS VOA

Analysis Batch: 129797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total/NA	Water	8260B	
500-40518-2	L302	Total/NA	Water	8260B	
500-40518-3	L303R	Total/NA	Water	8260B	
500-40518-4	L304R	Total/NA	Water	8260B	
500-40518-5	L305	Total/NA	Water	8260B	
LCS 500-129797/5	Lab Control Sample	Total/NA	Water	8260B	
LCS D 500-129797/29	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 500-129797/4	Method Blank	Total/NA	Water	8260B	

Metals

Prep Batch: 128617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total/NA	Water	3010A	
500-40518-2	L302	Total/NA	Water	3010A	
500-40518-3	L303R	Total/NA	Water	3010A	
500-40518-4	L304R	Total/NA	Water	3010A	
500-40518-5	L305	Total/NA	Water	3010A	
500-40518-5 DU	L305	Total/NA	Water	3010A	
500-40518-5 MS	L305	Total/NA	Water	3010A	
500-40518-5 MSD	L305	Total/NA	Water	3010A	
LCS 500-128617/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 500-128617/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 128618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total Recoverable	Water	3005A	
500-40518-2	L302	Total Recoverable	Water	3005A	
500-40518-3	L303R	Total Recoverable	Water	3005A	
500-40518-4	L304R	Total Recoverable	Water	3005A	
500-40518-5	L305	Total Recoverable	Water	3005A	
LCS 500-128618/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 500-128618/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 128754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total/NA	Water	6010B	128617
500-40518-2	L302	Total/NA	Water	6010B	128617
500-40518-3	L303R	Total/NA	Water	6010B	128617
500-40518-4	L304R	Total/NA	Water	6010B	128617
500-40518-5	L305	Total/NA	Water	6010B	128617
500-40518-5 DU	L305	Total/NA	Water	6010B	128617
500-40518-5 MS	L305	Total/NA	Water	6010B	128617
500-40518-5 MSD	L305	Total/NA	Water	6010B	128617
LCS 500-128617/2-A	Lab Control Sample	Total/NA	Water	6010B	128617
MB 500-128617/1-A	Method Blank	Total/NA	Water	6010B	128617

Analysis Batch: 129036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total Recoverable	Water	6020	128618
500-40518-2	L302	Total Recoverable	Water	6020	128618
500-40518-3	L303R	Total Recoverable	Water	6020	128618

QC Association Summary

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Metals (Continued)**Analysis Batch: 129036 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-4	L304R	Total Recoverable	Water	6020	128618
500-40518-5	L305	Total Recoverable	Water	6020	128618
LCS 500-128618/2-A	Lab Control Sample	Total Recoverable	Water	6020	128618
MB 500-128618/1-A	Method Blank	Total Recoverable	Water	6020	128618

General Chemistry**Analysis Batch: 128686**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total/NA	Water	SM 4500 NO2 B	
500-40518-2	L302	Total/NA	Water	SM 4500 NO2 B	
500-40518-3	L303R	Total/NA	Water	SM 4500 NO2 B	
500-40518-4	L304R	Total/NA	Water	SM 4500 NO2 B	
500-40518-5	L305	Total/NA	Water	SM 4500 NO2 B	
500-40518-5 MS	L305	Total/NA	Water	SM 4500 NO2 B	
500-40518-5 MSD	L305	Total/NA	Water	SM 4500 NO2 B	
LCS 500-128686/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-128686/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 129239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total/NA	Water	SM 2540C	
500-40518-2	L302	Total/NA	Water	SM 2540C	
500-40518-3	L303R	Total/NA	Water	SM 2540C	
500-40518-4	L304R	Total/NA	Water	SM 2540C	
500-40518-5	L305	Total/NA	Water	SM 2540C	
LCS 500-129239/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-129239/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 129335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total/NA	Water	SM 4500 F C	
500-40518-2	L302	Total/NA	Water	SM 4500 F C	
500-40518-3	L303R	Total/NA	Water	SM 4500 F C	
500-40518-4	L304R	Total/NA	Water	SM 4500 F C	
500-40518-5	L305	Total/NA	Water	SM 4500 F C	
LCS 500-129335/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-129335/3	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 130445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total/NA	Water	9038	
500-40518-2	L302	Total/NA	Water	9038	
500-40518-3	L303R	Total/NA	Water	9038	
500-40518-4	L304R	Total/NA	Water	9038	
500-40518-5	L305	Total/NA	Water	9038	
LCS 500-130445/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-130445/3	Method Blank	Total/NA	Water	9038	

Analysis Batch: 130641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total/NA	Water	9251	

QC Association Summary

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

General Chemistry (Continued)

Analysis Batch: 130641 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-2	L302	Total/NA	Water	9251	
500-40518-3	L303R	Total/NA	Water	9251	
500-40518-3 MS	L303R	Total/NA	Water	9251	
500-40518-3 MSD	L303R	Total/NA	Water	9251	
LCS 500-130641/32	Lab Control Sample	Total/NA	Water	9251	
MB 500-130641/31	Method Blank	Total/NA	Water	9251	

Analysis Batch: 131096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total/NA	Water	SM 4500 NO3 F	
500-40518-2	L302	Total/NA	Water	SM 4500 NO3 F	
500-40518-3	L303R	Total/NA	Water	SM 4500 NO3 F	
500-40518-4	L304R	Total/NA	Water	SM 4500 NO3 F	
500-40518-5	L305	Total/NA	Water	SM 4500 NO3 F	
LCS 500-131096/101	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-131096/100	Method Blank	Total/NA	Water	SM 4500 NO3 F	

Analysis Batch: 131183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-4	L304R	Total/NA	Water	9251	
500-40518-5	L305	Total/NA	Water	9251	
LCS 500-131183/58	Lab Control Sample	Total/NA	Water	9251	
MB 500-131183/91	Method Blank	Total/NA	Water	9251	

Analysis Batch: 131200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-40518-1	L301	Total/NA	Water	Nitrate by calc	
500-40518-2	L302	Total/NA	Water	Nitrate by calc	
500-40518-3	L303R	Total/NA	Water	Nitrate by calc	
500-40518-4	L304R	Total/NA	Water	Nitrate by calc	
500-40518-5	L305	Total/NA	Water	Nitrate by calc	

Surrogate Summary

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-124)	TOL (80-121)	BFB (77-112)	DBFM (78-119)
500-40518-1	L301	115	97	93	112
500-40518-2	L302	118	102	96	118
500-40518-3	L303R	116	97	93	113
500-40518-4	L304R	112	97	93	110
500-40518-5	L305	115	101	97	112
LCS 500-129797/5	Lab Control Sample	104	102	103	104
LCSD 500-129797/29	Lab Control Sample Dup	105	101	104	92
MB 500-129797/4	Method Blank	100	99	97	96

Surrogate Legend

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

QC Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-129797/4

Matrix: Water

Analysis Batch: 129797

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50		ug/L			10/21/11 12:51	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/11 12:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/11 12:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/21/11 12:51	1
Chloroform	ND		1.0		ug/L			10/21/11 12:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/11 12:51	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/11 12:51	1
Benzene	ND		0.50		ug/L			10/21/11 12:51	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/11 12:51	1
Trichloroethene	ND		0.50		ug/L			10/21/11 12:51	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/11 12:51	1
Bromodichloromethane	ND		1.0		ug/L			10/21/11 12:51	1
Toluene	ND		0.50		ug/L			10/21/11 12:51	1
Tetrachloroethene	ND		1.0		ug/L			10/21/11 12:51	1
Dibromochloromethane	ND		1.0		ug/L			10/21/11 12:51	1
Chlorobenzene	ND		1.0		ug/L			10/21/11 12:51	1
Ethylbenzene	ND		0.50		ug/L			10/21/11 12:51	1
Xylenes, Total	ND		1.0		ug/L			10/21/11 12:51	1
Styrene	ND		1.0		ug/L			10/21/11 12:51	1
Bromoform	ND		1.0		ug/L			10/21/11 12:51	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 124		10/21/11 12:51	1
Toluene-d8 (Surr)	99		80 - 121		10/21/11 12:51	1
4-Bromofluorobenzene (Surr)	97		77 - 112		10/21/11 12:51	1
Dibromofluoromethane	96		78 - 119		10/21/11 12:51	1

Lab Sample ID: LCS 500-129797/5

Matrix: Water

Analysis Batch: 129797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	% Rec. Limits
Vinyl chloride	50.0	55.5		ug/L		111	47 - 138
1,1-Dichloroethene	50.0	49.7		ug/L		99	60 - 126
trans-1,2-Dichloroethene	50.0	54.5		ug/L		109	67 - 120
cis-1,2-Dichloroethene	50.0	54.0		ug/L		108	66 - 111
Chloroform	50.0	52.1		ug/L		104	71 - 116
1,1,1-Trichloroethane	50.0	53.5		ug/L		107	66 - 128
Carbon tetrachloride	50.0	51.5		ug/L		103	58 - 132
Benzene	50.0	50.3		ug/L		101	74 - 113
1,2-Dichloroethane	50.0	50.3		ug/L		101	69 - 115
Trichloroethene	50.0	52.0		ug/L		104	75 - 116
1,2-Dichloropropane	50.0	50.3		ug/L		101	68 - 123
Bromodichloromethane	50.0	51.1		ug/L		102	73 - 120
Toluene	50.0	48.8		ug/L		98	76 - 121
Tetrachloroethene	50.0	46.0		ug/L		92	76 - 114
Dibromochloromethane	50.0	52.4		ug/L		105	73 - 118
Chlorobenzene	50.0	49.3		ug/L		99	81 - 111
Ethylbenzene	50.0	48.3		ug/L		97	79 - 114

QC Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-129797/5

Matrix: Water

Analysis Batch: 129797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	% Rec. Limits
Xylenes, Total	150	147		ug/L		98	74 - 117
Styrene	50.0	53.1		ug/L		106	76 - 118
Bromoform	50.0	57.2		ug/L		114	64 - 126

Surrogate	LCS % Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 124
Toluene-d8 (Surr)	102		80 - 121
4-Bromofluorobenzene (Surr)	103		77 - 112
Dibromofluoromethane	104		78 - 119

Lab Sample ID: LCSD 500-129797/29

Matrix: Water

Analysis Batch: 129797

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	% Rec. Limits	RPD	RPD Limit
Vinyl chloride	50.0	41.9	*	ug/L		84	47 - 138	28	20
1,1-Dichloroethene	50.0	39.3	*	ug/L		79	60 - 126	23	20
trans-1,2-Dichloroethene	50.0	41.4	*	ug/L		83	67 - 120	27	20
cis-1,2-Dichloroethene	50.0	40.3	*	ug/L		81	66 - 111	29	20
Chloroform	50.0	40.7	*	ug/L		81	71 - 116	25	20
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	66 - 128	15	20
Carbon tetrachloride	50.0	51.9		ug/L		104	58 - 132	1	20
Benzene	50.0	41.9		ug/L		84	74 - 113	18	20
1,2-Dichloroethane	50.0	47.8		ug/L		96	69 - 115	5	20
Trichloroethene	50.0	48.3		ug/L		97	75 - 116	7	20
1,2-Dichloropropane	50.0	42.1		ug/L		84	68 - 123	18	20
Bromodichloromethane	50.0	45.6		ug/L		91	73 - 120	11	20
Toluene	50.0	43.6		ug/L		87	76 - 121	11	20
Tetrachloroethene	50.0	48.8		ug/L		98	76 - 114	6	20
Dibromochloromethane	50.0	49.1		ug/L		98	73 - 118	7	20
Chlorobenzene	50.0	45.4		ug/L		91	81 - 111	8	20
Ethylbenzene	50.0	45.8		ug/L		92	79 - 114	5	20
Xylenes, Total	150	138		ug/L		92	74 - 117	6	20
Styrene	50.0	47.5		ug/L		95	76 - 118	11	20
Bromoform	50.0	52.2		ug/L		104	64 - 126	9	20

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 124
Toluene-d8 (Surr)	101		80 - 121
4-Bromofluorobenzene (Surr)	104		77 - 112
Dibromofluoromethane	92		78 - 119

QC Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-128617/1-A
Matrix: Water
Analysis Batch: 128754

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.010		mg/L		10/12/11 16:10	10/13/11 09:14	1
Chromium	ND		0.010		mg/L		10/12/11 16:10	10/13/11 09:14	1
Copper	ND		0.010		mg/L		10/12/11 16:10	10/13/11 09:14	1
Iron	ND		0.20		mg/L		10/12/11 16:10	10/13/11 09:14	1
Manganese	ND		0.010		mg/L		10/12/11 16:10	10/13/11 09:14	1
Zinc	ND		0.020		mg/L		10/12/11 16:10	10/13/11 09:14	1

Lab Sample ID: LCS 500-128617/2-A
Matrix: Water
Analysis Batch: 128754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	% Rec. Limits
Barium	2.00	1.95		mg/L		97	80 - 120
Chromium	0.200	0.191		mg/L		95	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Iron	1.00	1.01		mg/L		101	80 - 120
Manganese	0.500	0.484		mg/L		97	80 - 120
Zinc	0.500	0.480		mg/L		96	80 - 120

Lab Sample ID: 500-40518-5 MS
Matrix: Water
Analysis Batch: 128754

Client Sample ID: L305
Prep Type: Total/NA
Prep Batch: 128617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	% Rec. Limits
Barium	0.018		2.00	1.95		mg/L		97	75 - 125
Chromium	ND		0.200	0.192		mg/L		96	75 - 125
Copper	ND		0.250	0.265		mg/L		105	75 - 125
Iron	ND		1.00	1.10		mg/L		98	75 - 125
Manganese	0.071		0.500	0.562		mg/L		98	75 - 125
Zinc	ND		0.500	0.569		mg/L		114	75 - 125

Lab Sample ID: 500-40518-5 MSD
Matrix: Water
Analysis Batch: 128754

Client Sample ID: L305
Prep Type: Total/NA
Prep Batch: 128617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	% Rec. Limits	RPD	RPD Limit
Barium	0.018		2.00	1.94		mg/L		96	75 - 125	1	20
Chromium	ND		0.200	0.191		mg/L		95	75 - 125	1	20
Copper	ND		0.250	0.266		mg/L		105	75 - 125	0	20
Iron	ND		1.00	1.11		mg/L		99	75 - 125	1	20
Manganese	0.071		0.500	0.560		mg/L		98	75 - 125	0	20
Zinc	ND		0.500	0.566		mg/L		113	75 - 125	0	20

Lab Sample ID: 500-40518-5 DU
Matrix: Water
Analysis Batch: 128754

Client Sample ID: L305
Prep Type: Total/NA
Prep Batch: 128617

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.018		0.0173		mg/L		2	20
Chromium	ND		ND		mg/L		NC	20

QC Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

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

Lab Sample ID: 500-40518-5 DU
Matrix: Water
Analysis Batch: 128754

Client Sample ID: L305
Prep Type: Total/NA
Prep Batch: 128617

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Copper	ND		ND		mg/L		NC	20
Iron	ND		ND		mg/L		NC	20
Manganese	0.071		0.0707		mg/L		0.1	20
Zinc	ND		ND		mg/L		NC	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 500-128618/1-A
Matrix: Water
Analysis Batch: 129036

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 128618

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 11:35	1
Arsenic	ND		0.0010		mg/L		10/12/11 16:10	10/14/11 11:35	1
Cadmium	ND		0.00050		mg/L		10/12/11 16:10	10/14/11 11:35	1
Selenium	ND		0.0025		mg/L		10/12/11 16:10	10/14/11 11:35	1

Lab Sample ID: LCS 500-128618/2-A
Matrix: Water
Analysis Batch: 129036

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 128618

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	% Rec.
		Result	Qualifier				Limits
Lead	0.100	0.103		mg/L		103	80 - 120
Arsenic	0.100	0.103		mg/L		103	80 - 120
Cadmium	0.0500	0.0552		mg/L		110	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-130445/3
Matrix: Water
Analysis Batch: 130445

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	ND		5.0		mg/L			10/27/11 04:35	1

Lab Sample ID: LCS 500-130445/4
Matrix: Water
Analysis Batch: 130445

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	% Rec.
		Result	Qualifier				Limits
Sulfate	20.0	20.1		mg/L		101	80 - 120

QC Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Method: 9251 - Chloride

Lab Sample ID: MB 500-130641/31
Matrix: Water
Analysis Batch: 130641

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0		mg/L			10/28/11 08:17	1

Lab Sample ID: LCS 500-130641/32
Matrix: Water
Analysis Batch: 130641

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	% Rec. Limits
Chloride	50.0	55.2		mg/L		110	80 - 120

Lab Sample ID: 500-40518-3 MS
Matrix: Water
Analysis Batch: 130641

Client Sample ID: L303R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	% Rec. Limits
Chloride	15		50.0	64.1		mg/L		98	75 - 125

Lab Sample ID: 500-40518-3 MSD
Matrix: Water
Analysis Batch: 130641

Client Sample ID: L303R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	% Rec. Limits	RPD	Limit
Chloride	15		50.0	66.0		mg/L		102	75 - 125	3	20

Lab Sample ID: MB 500-131183/91
Matrix: Water
Analysis Batch: 131183

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0		mg/L			11/02/11 12:06	1

Lab Sample ID: LCS 500-131183/58
Matrix: Water
Analysis Batch: 131183

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	% Rec. Limits
Chloride	50.0	51.0		mg/L		102	80 - 120

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

Lab Sample ID: MB 500-129239/1
Matrix: Water
Analysis Batch: 129239

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		mg/L			10/17/11 22:11	1

QC Sample Results

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

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

Lab Sample ID: LCS 500-129239/2
Matrix: Water
Analysis Batch: 129239

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	250	296		mg/L		118	80 - 120

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-129335/3
Matrix: Water
Analysis Batch: 129335

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			10/18/11 14:00	1

Lab Sample ID: LCS 500-129335/4
Matrix: Water
Analysis Batch: 129335

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	% Rec. Limits
Fluoride	10.0	10.2		mg/L		102	80 - 120

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-128686/3
Matrix: Water
Analysis Batch: 128686

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	ND		0.020		mg/L			10/12/11 14:16	1

Lab Sample ID: LCS 500-128686/4
Matrix: Water
Analysis Batch: 128686

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	% Rec. Limits
Nitrogen, Nitrite	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: 500-40518-5 MS
Matrix: Water
Analysis Batch: 128686

Client Sample ID: L305
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	% Rec. Limits
Nitrogen, Nitrite	ND		0.100	0.105		mg/L		105	75 - 125

Lab Sample ID: 500-40518-5 MSD
Matrix: Water
Analysis Batch: 128686

Client Sample ID: L305
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	% Rec. Limits	RPD	Limit
Nitrogen, Nitrite	ND		0.100	0.106		mg/L		106	75 - 125	1	20

QC Sample Results

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-131096/100
Matrix: Water
Analysis Batch: 131096

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			11/01/11 18:06	1

Lab Sample ID: LCS 500-131096/101
Matrix: Water
Analysis Batch: 131096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	% Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.949		mg/L		95	80 - 120

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Certification Summary

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-40518-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	ACCLASS	DoD ELAP		ADE-1429
TestAmerica Chicago	ACCLASS	ISO/IEC 17025		AT-1428
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Florida	NELAC	4	E871072
TestAmerica Chicago	Georgia	Georgia EPD	4	N/A
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	Kentucky UST	4	66
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina	North Carolina DENR	4	291
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	USDA	USDA		P330-09-00027
TestAmerica Chicago	Virginia	NELAC Secondary AB	3	460142
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: ANDREW JARRICK
 Company: CATERPILLAR INC
 Address: 3826 W. ROUTE 24
 Address: MAPLETON IL 61547
 Phone: 309-494-2745
 Fax:
 E-Mail: JARRICK_ANDREW_L@CAT.COM

Bill To (optional)
 Contact:
 Company:
 Address:
 Address:
 Phone:
 Fax:
 Off/Reference#

Chain of Custody Record

Lab Job #: 500-40518
 Chain of Custody Number:
 Page _____ of _____
 Temperature °C of Cooler: 2.6

Client		Client Project #		Preservative		Parameter		Sample ID		Sampling		# of Containers		Matrix		Comments	
CAT MAPLETON				3		1		8		2							
Project Name		LANDFILL LEACHATE FALL 2011															
Project Location/State		MAPLETON IL															
Sampler		ANDREW JARRICK															
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	1	2	3	4	5	6	7	8	9	10	11
1		L301	10-10-11	15:20	6	W	X	X	X	X							
2		L302	10-11-11	11:05	6	W	X	X	X	X							
3		L303R	10-11-11	11:40	6	W	X	X	X	X							
4		L304R	10-11-11	9:15	6	W	X	X	X	X							
5		L305	10-10-11	16:45	6	W	X	X	X	X							

- Preservative Key**
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>CATERPILLAR</u>	Date: <u>10-11-11</u>	Time: <u>15:05</u>	Received By: <u>[Signature]</u>	Company: <u>TAL</u>	Date: <u>10/11/11</u>	Time: <u>15:05 PM</u>	Lab Courier
Relinquished By: <u>[Signature]</u>	Company: <u>TAL</u>	Date: <u>10/11/11</u>	Time: <u>16:30</u>	Received By: <u>[Signature]</u>	Company: <u>TAL</u>	Date: <u>10/12/11</u>	Time: <u>1030</u>	Shipped: <u>FX</u>
Relinquished By:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:	Hand Delivered:

- Matrix Key**
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:

Lab Comments:

Login Sample Receipt Checklist

Client: Caterpillar Inc.

Job Number: 500-40518-1

Login Number: 40518

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-6392-1

Client Project/Site: 070102-03 Caterpillar - Mapleton 817

For:

Conestoga-Rovers & Associates, Inc.
6520 Corporate Drive
Indianapolis, Indiana 46278

Attn: Mr. Michael Richardson



Authorized for release by:
12/6/2011 6:16:50 PM

Amy McCormick
Project Manager II
amy.mccormick@testamericainc.com



LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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