

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

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Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-104531-1

Client Project/Site: Frewsburg Site #907016

For:

New York State D.E.C.

270 Michigan Avenue

Buffalo, New York 14203

Attn: Mr. Maurice Moore



Authorized for release by:

8/23/2016 11:21:25 AM

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

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Orlette Johnson
Senior Project Manager
8/23/2016 11:21:25 AM



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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Qualifiers

GC/MS VOA

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 480-104531-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	J	10	3.0	ug/L	1		8260C	Total/NA
Iron	0.15		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Oil & Grease	1.7	J F1	5.2	1.4	mg/L	1		1664A	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-104531-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 480-104531-1

Date Collected: 08/12/16 11:00

Matrix: Water

Date Received: 08/12/16 15:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/18/16 04:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/18/16 04:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/18/16 04:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/18/16 04:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/18/16 04:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/18/16 04:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/18/16 04:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/18/16 04:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/18/16 04:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/18/16 04:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/18/16 04:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/18/16 04:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/18/16 04:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/18/16 04:45	1
2-Hexanone	ND		5.0	1.2	ug/L			08/18/16 04:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/18/16 04:45	1
Acetone	3.9	J	10	3.0	ug/L			08/18/16 04:45	1
Benzene	ND		1.0	0.41	ug/L			08/18/16 04:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/18/16 04:45	1
Bromoform	ND		1.0	0.26	ug/L			08/18/16 04:45	1
Bromomethane	ND		1.0	0.69	ug/L			08/18/16 04:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/18/16 04:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/18/16 04:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/18/16 04:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/18/16 04:45	1
Chloroethane	ND		1.0	0.32	ug/L			08/18/16 04:45	1
Chloroform	ND		1.0	0.34	ug/L			08/18/16 04:45	1
Chloromethane	ND		1.0	0.35	ug/L			08/18/16 04:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/18/16 04:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/18/16 04:45	1
Cyclohexane	ND		1.0	0.18	ug/L			08/18/16 04:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/18/16 04:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/18/16 04:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/18/16 04:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/18/16 04:45	1
Methyl acetate	ND		2.5	1.3	ug/L			08/18/16 04:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/18/16 04:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/18/16 04:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/18/16 04:45	1
Styrene	ND		1.0	0.73	ug/L			08/18/16 04:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/18/16 04:45	1
Toluene	ND		1.0	0.51	ug/L			08/18/16 04:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/18/16 04:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/18/16 04:45	1
Trichloroethene	ND		1.0	0.46	ug/L			08/18/16 04:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/18/16 04:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/18/16 04:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/18/16 04:45	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 480-104531-1

Date Collected: 08/12/16 11:00

Matrix: Water

Date Received: 08/12/16 15:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		08/18/16 04:45	1
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		08/18/16 04:45	1
4-Bromofluorobenzene (Surr)	96		73 - 120		08/18/16 04:45	1
Dibromofluoromethane (Surr)	98		75 - 123		08/18/16 04:45	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.15		0.050	0.019	mg/L	-	08/15/16 09:31	08/15/16 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	1.7	J F1	5.2	1.4	mg/L	-	08/17/16 18:08	08/18/16 01:13	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L	-		08/15/16 10:30	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Client Sample ID: TRIP BLANK

Date Collected: 08/12/16 00:00

Date Received: 08/12/16 15:15

Lab Sample ID: 480-104531-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/18/16 05:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/18/16 05:10	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/18/16 05:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/18/16 05:10	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/18/16 05:10	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/18/16 05:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/18/16 05:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/18/16 05:10	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/18/16 05:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/18/16 05:10	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/18/16 05:10	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/18/16 05:10	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/18/16 05:10	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/18/16 05:10	1
2-Hexanone	ND		5.0	1.2	ug/L			08/18/16 05:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/18/16 05:10	1
Acetone	ND		10	3.0	ug/L			08/18/16 05:10	1
Benzene	ND		1.0	0.41	ug/L			08/18/16 05:10	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/18/16 05:10	1
Bromoform	ND		1.0	0.26	ug/L			08/18/16 05:10	1
Bromomethane	ND		1.0	0.69	ug/L			08/18/16 05:10	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/18/16 05:10	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/18/16 05:10	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/18/16 05:10	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/18/16 05:10	1
Chloroethane	ND		1.0	0.32	ug/L			08/18/16 05:10	1
Chloroform	ND		1.0	0.34	ug/L			08/18/16 05:10	1
Chloromethane	ND		1.0	0.35	ug/L			08/18/16 05:10	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/18/16 05:10	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/18/16 05:10	1
Cyclohexane	ND		1.0	0.18	ug/L			08/18/16 05:10	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/18/16 05:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/18/16 05:10	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/18/16 05:10	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/18/16 05:10	1
Methyl acetate	ND		2.5	1.3	ug/L			08/18/16 05:10	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/18/16 05:10	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/18/16 05:10	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/18/16 05:10	1
Styrene	ND		1.0	0.73	ug/L			08/18/16 05:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/18/16 05:10	1
Toluene	ND		1.0	0.51	ug/L			08/18/16 05:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/18/16 05:10	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/18/16 05:10	1
Trichloroethene	ND		1.0	0.46	ug/L			08/18/16 05:10	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/18/16 05:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/18/16 05:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/18/16 05:10	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-104531-2

Date Collected: 08/12/16 00:00

Matrix: Water

Date Received: 08/12/16 15:15

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	98		80 - 120		08/18/16 05:10	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	96		77 - 120		08/18/16 05:10	1
<i>4-Bromofluorobenzene (Surr)</i>	98		73 - 120		08/18/16 05:10	1
<i>Dibromofluoromethane (Surr)</i>	99		75 - 123		08/18/16 05:10	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TOL (80-120)	12DCE (77-120)	BFB (73-120)	DBFM (75-123)
480-104531-1	OUTFALL 001	99	98	96	98
480-104531-2	TRIP BLANK	98	96	98	99
LCS 480-316503/5	Lab Control Sample	100	97	103	98
MB 480-316503/7	Method Blank	98	96	100	98

Surrogate Legend

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-316503/7

Matrix: Water

Analysis Batch: 316503

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/17/16 22:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/16 22:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/17/16 22:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/17/16 22:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/17/16 22:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/17/16 22:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/17/16 22:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/17/16 22:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/17/16 22:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/17/16 22:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/17/16 22:38	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/17/16 22:38	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/17/16 22:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/17/16 22:38	1
2-Hexanone	ND		5.0	1.2	ug/L			08/17/16 22:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/17/16 22:38	1
Acetone	ND		10	3.0	ug/L			08/17/16 22:38	1
Benzene	ND		1.0	0.41	ug/L			08/17/16 22:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/16 22:38	1
Bromoform	ND		1.0	0.26	ug/L			08/17/16 22:38	1
Bromomethane	ND		1.0	0.69	ug/L			08/17/16 22:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/17/16 22:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/17/16 22:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/17/16 22:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/17/16 22:38	1
Chloroethane	ND		1.0	0.32	ug/L			08/17/16 22:38	1
Chloroform	ND		1.0	0.34	ug/L			08/17/16 22:38	1
Chloromethane	ND		1.0	0.35	ug/L			08/17/16 22:38	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/17/16 22:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/17/16 22:38	1
Cyclohexane	ND		1.0	0.18	ug/L			08/17/16 22:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/17/16 22:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/17/16 22:38	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/17/16 22:38	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/17/16 22:38	1
Methyl acetate	ND		2.5	1.3	ug/L			08/17/16 22:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/17/16 22:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/17/16 22:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/17/16 22:38	1
Styrene	ND		1.0	0.73	ug/L			08/17/16 22:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/17/16 22:38	1
Toluene	ND		1.0	0.51	ug/L			08/17/16 22:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/17/16 22:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/17/16 22:38	1
Trichloroethene	ND		1.0	0.46	ug/L			08/17/16 22:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/17/16 22:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/17/16 22:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/17/16 22:38	1

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		08/17/16 22:38	1
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		08/17/16 22:38	1
4-Bromofluorobenzene (Surr)	100		73 - 120		08/17/16 22:38	1
Dibromofluoromethane (Surr)	98		75 - 123		08/17/16 22:38	1

Lab Sample ID: LCS 480-316503/5

Matrix: Water

Analysis Batch: 316503

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	21.7		ug/L		87	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.3		ug/L		93	76 - 120
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.9		ug/L		84	61 - 148
1,1-Dichloroethane	25.0	22.3		ug/L		89	77 - 120
1,1-Dichloroethene	25.0	21.4		ug/L		86	66 - 127
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.2		ug/L		89	56 - 134
1,2-Dichlorobenzene	25.0	22.4		ug/L		90	80 - 124
1,2-Dichloroethane	25.0	22.2		ug/L		89	75 - 120
1,2-Dichloropropane	25.0	22.5		ug/L		90	76 - 120
1,3-Dichlorobenzene	25.0	22.8		ug/L		91	77 - 120
1,4-Dichlorobenzene	25.0	21.9		ug/L		88	80 - 120
2-Butanone (MEK)	125	117		ug/L		93	57 - 140
2-Hexanone	125	119		ug/L		95	65 - 127
4-Methyl-2-pentanone (MIBK)	125	115		ug/L		92	71 - 125
Acetone	125	117		ug/L		94	56 - 142
Benzene	25.0	22.1		ug/L		88	71 - 124
Bromodichloromethane	25.0	22.4		ug/L		90	80 - 122
Bromoform	25.0	23.2		ug/L		93	61 - 132
Bromomethane	25.0	20.7		ug/L		83	55 - 144
Carbon disulfide	25.0	21.5		ug/L		86	59 - 134
Carbon tetrachloride	25.0	22.7		ug/L		91	72 - 134
Chlorobenzene	25.0	22.7		ug/L		91	80 - 120
Dibromochloromethane	25.0	23.4		ug/L		94	75 - 125
Chloroethane	25.0	20.7		ug/L		83	69 - 136
Chloroform	25.0	21.6		ug/L		86	73 - 127
Chloromethane	25.0	17.8		ug/L		71	68 - 124
cis-1,2-Dichloroethene	25.0	21.7		ug/L		87	74 - 124
cis-1,3-Dichloropropene	25.0	23.6		ug/L		94	74 - 124
Cyclohexane	25.0	23.4		ug/L		94	59 - 135
Dichlorodifluoromethane	25.0	17.2		ug/L		69	59 - 135
Ethylbenzene	25.0	22.5		ug/L		90	77 - 123
1,2-Dibromoethane	25.0	23.1		ug/L		92	77 - 120
Isopropylbenzene	25.0	23.0		ug/L		92	77 - 122
Methyl acetate	125	113		ug/L		90	74 - 133
Methyl tert-butyl ether	25.0	22.4		ug/L		90	77 - 120
Methylcyclohexane	25.0	22.7		ug/L		91	68 - 134
Methylene Chloride	25.0	22.4		ug/L		90	75 - 124
Styrene	25.0	23.6		ug/L		94	80 - 120
Tetrachloroethene	25.0	22.0		ug/L		88	74 - 122
Toluene	25.0	22.2		ug/L		89	80 - 122
trans-1,2-Dichloroethene	25.0	21.4		ug/L		86	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

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

Lab Sample ID: LCS 480-316503/5

Matrix: Water

Analysis Batch: 316503

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	25.0	23.8		ug/L		95	80 - 120
Trichloroethene	25.0	22.3		ug/L		89	74 - 123
Trichlorofluoromethane	25.0	21.7		ug/L		87	62 - 150
Vinyl chloride	25.0	19.1		ug/L		76	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-315969/1-A

Matrix: Water

Analysis Batch: 316141

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 315969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		08/15/16 09:31	08/15/16 17:07	1

Lab Sample ID: LCS 480-315969/2-A

Matrix: Water

Analysis Batch: 316141

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 315969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.48		mg/L		105	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 480-316521/1-A

Matrix: Water

Analysis Batch: 316553

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 316521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		08/17/16 18:08	08/18/16 01:13	1

Lab Sample ID: LCS 480-316521/2-A

Matrix: Water

Analysis Batch: 316553

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 316521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	40.0	41.60		mg/L		104	78 - 114

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: 480-104531-1 MS

Matrix: Water

Analysis Batch: 316553

Client Sample ID: OUTFALL 001

Prep Type: Total/NA

Prep Batch: 316521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	1.7	J F1	20.6	17.50	F1	mg/L	—	77	78 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-316000/1

Matrix: Water

Analysis Batch: 316000

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L	—		08/15/16 10:30	1

Lab Sample ID: LCS 480-316000/2

Matrix: Water

Analysis Batch: 316000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	241	239.6		mg/L	—	100	88 - 110

QC Association Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

GC/MS VOA

Analysis Batch: 316503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-104531-1	OUTFALL 001	Total/NA	Water	8260C	
480-104531-2	TRIP BLANK	Total/NA	Water	8260C	
MB 480-316503/7	Method Blank	Total/NA	Water	8260C	
LCS 480-316503/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 315969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-104531-1	OUTFALL 001	Total/NA	Water	200.7	
MB 480-315969/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-315969/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 316141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-104531-1	OUTFALL 001	Total/NA	Water	200.7 Rev 4.4	315969
MB 480-315969/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	315969
LCS 480-315969/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	315969

General Chemistry

Analysis Batch: 316000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-104531-1	OUTFALL 001	Total/NA	Water	SM 2540D	
MB 480-316000/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-316000/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 316521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-104531-1	OUTFALL 001	Total/NA	Water	1664A	
MB 480-316521/1-A	Method Blank	Total/NA	Water	1664A	
LCS 480-316521/2-A	Lab Control Sample	Total/NA	Water	1664A	
480-104531-1 MS	OUTFALL 001	Total/NA	Water	1664A	

Analysis Batch: 316553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-104531-1	OUTFALL 001	Total/NA	Water	1664A	316521
MB 480-316521/1-A	Method Blank	Total/NA	Water	1664A	316521
LCS 480-316521/2-A	Lab Control Sample	Total/NA	Water	1664A	316521
480-104531-1 MS	OUTFALL 001	Total/NA	Water	1664A	316521

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Client Sample ID: OUTFALL 001

Date Collected: 08/12/16 11:00

Date Received: 08/12/16 15:15

Lab Sample ID: 480-104531-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	316503	08/18/16 04:45	GTG	TAL BUF
Total/NA	Prep	200.7			315969	08/15/16 09:31	RMZ	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	316141	08/15/16 18:00	AMH	TAL BUF
Total/NA	Prep	1664A			316521	08/17/16 18:08	DSC	TAL BUF
Total/NA	Analysis	1664A		1	316553	08/18/16 01:13	DSC	TAL BUF
Total/NA	Analysis	SM 2540D		1	316000	08/15/16 10:30	EKB	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 08/12/16 00:00

Date Received: 08/12/16 15:15

Lab Sample ID: 480-104531-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	316503	08/18/16 05:10	GTG	TAL BUF

Laboratory References:

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

Certification Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
1664A	HEM and SGT-HEM	1664A	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-104531-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-104531-1	OUTFALL 001	Water	08/12/16 11:00	08/12/16 15:15
480-104531-2	TRIP BLANK	Water	08/12/16 00:00	08/12/16 15:15

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TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14226-2298

Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

THE TESTERS OF ENVIRONMENTAL



480-104531 COC

Client Information Client Contact: Thomas Palmer Company: Groundwater & Environmental Services Inc Address: 495 Aero Drive Suite 3 City: Cheektowaga State: NY, 14225 Phone: (716) 866-3390 Email: tpalmer@gesonline.com Project Name: Frewsburg Site#90701 Site:		Due Date Requested: 10 - Day TAT Requested (days): PO #: CallOut ID 126536 MO #: Project #: 48013647 SSOW#:		Lab PM: Johnson, Orlette S E-Mail: orlette.johnson@testamericainc.com Carrier Tracking No(s): COC No: 480-83233-19837.1 Page: Page 1 of 1 Job #:	
Sample Identification Sample ID: 001 Outfall: 001 Trip Blank		Sample Date: 8-12-14 Sample Time: 1100 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air): Water	Field Filtered Sample (Yes or No): 200.7 - Total Fe: 1213 1664A - Calc - Oil & Grease: 1 2540D - Total Suspended Solids: 1 8260C - TCL list CLM04.2: 1		
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☒ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/OC Requirements:			
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by:		Method of Shipment:			
Date/Time: 8/12/14 Date/Time: 11515 Date/Time:		Date/Time: 8/14/14 Date/Time: 1515 Date/Time:			
Relinquished by: [Signature] Relinquished by:		Relinquished by: [Signature] Relinquished by:			
Relinquished by:		Relinquished by:			
Custody Seals Intact: ☐ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks: 2.6 #1			

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-104531-1

Login Number: 104531

List Number: 1

Creator: Conway, Curtis R

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	