

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

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Tel: (716)691-2600

TestAmerica Job ID: 480-132499-1

Client Project/Site: Seneca Meadows LF - Region 8

For:

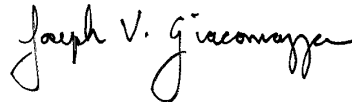
New York State D.E.C.

625 Broadway

Division of Environmental Remediation

Albany, New York 12233-7014

Attn: Mr. Vincent Fay



Authorized for release by:

3/29/2018 1:35:55 PM

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

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

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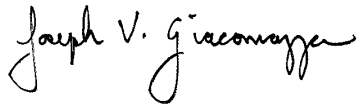
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Management Assistant II
3/29/2018 1:35:55 PM



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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	ISTD response or retention time outside acceptable limits
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Case Narrative

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Job ID: 480-132499-1

Laboratory: TestAmerica Buffalo

Narrative

**Job Narrative
480-132499-1**

Comments

No additional comments.

Receipt

The samples were received on 3/13/2018 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

GC/MS Semi VOA

Method(s) 8270D SIM ID: The 1,4-Dioxane result reported for samples SENECA MEADOWS STAGE 7-8 20180312 (480-132499-1), SENECA MEADOWS SOUTHEAST1 20180312 (480-132499-2), SENECA MEADOWS RAWLEACHATE 20180312 (480-132499-3) and SENECA MEADOWS CONCENTRATE 20180312 (480-132499-4) recovered above the upper calibration range. The results are to be considered estimated and have been qualified with an "E" flag.

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

LCMS

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

Organic Prep

Method(s) 3510C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: SENECA MEADOWS STAGE 7-8 20180312 (480-132499-1), SENECA MEADOWS SOUTHEAST1 20180312 (480-132499-2), SENECA MEADOWS RAWLEACHATE 20180312 (480-132499-3) and SENECA MEADOWS CONCENTRATE 20180312 (480-132499-4). The reporting limits (RLs) have been adjusted proportionately.

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

Client Sample Results

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Client Sample ID: SENECA MEADOWS STAGE 7-8 20180312

Lab Sample ID: 480-132499-1

Date Collected: 03/12/18 13:00

Matrix: Water

Date Received: 03/13/18 10:45

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	70	E	2.0	1.0	ug/L		03/14/18 14:09	03/19/18 23:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	39		15 - 110				03/14/18 14:09	03/19/18 23:21	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	235		20.0	4.90	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorohexanoic acid (PFHxA)	1800		20.0	5.80	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluoroheptanoic acid (PFHpA)	215		20.0	2.50	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorooctanoic acid (PFOA)	331		20.0	8.50	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorononanoic acid (PFNA)	23.4		20.0	2.70	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorodecanoic acid (PFDA)	9.07	J	20.0	3.10	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluoroundecanoic acid (PFUnA)	11.0	U	20.0	11.0	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorododecanoic acid (PFDoA)	5.50	U	20.0	5.50	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorotridecanoic Acid (PFTriA)	13.0	U	20.0	13.0	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorotetradecanoic acid (PFTeA)	2.90	U	20.0	2.90	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorobutanesulfonic acid (PFBS)	464		20.0	2.00	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorohexanesulfonic acid (PFHxS)	180	B	20.0	1.70	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	U	20.0	1.90	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorooctanesulfonic acid (PFOS)	110		20.0	5.40	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorodecanesulfonic acid (PFDS)	3.20	U	20.0	3.20	ng/L		03/26/18 16:46	03/27/18 12:05	1
Perfluorooctane Sulfonamide (FOSA)	3.50	U	20.0	3.50	ng/L		03/26/18 16:46	03/27/18 12:05	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	31.0	U	200	31.0	ng/L		03/26/18 16:46	03/27/18 12:05	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	19.0	U	200	19.0	ng/L		03/26/18 16:46	03/27/18 12:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	39		25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C2 PFHxA	52		25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C4-PFHpA	72		25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C4 PFOA	81		25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C5 PFNA	112		25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C2 PFDA	125		25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C2 PFUnA	106		25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C2 PFDoA	70		25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C2-PFTeDA	21	*	25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C3-PFBS	72		25 - 150				03/26/18 16:46	03/27/18 12:05	1
18O2 PFHxS	104		25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C4 PFOS	115		25 - 150				03/26/18 16:46	03/27/18 12:05	1
13C8 FOSA	106		25 - 150				03/26/18 16:46	03/27/18 12:05	1
d3-NMeFOSAA	149		25 - 150				03/26/18 16:46	03/27/18 12:05	1
d5-NEtFOSAA	143		25 - 150				03/26/18 16:46	03/27/18 12:05	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1200	D B	200	35.0	ng/L		03/26/18 16:46	03/27/18 16:39	10
6:2FTS	216	J D	2000	200	ng/L		03/26/18 16:46	03/27/18 16:39	10

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Client Sample ID: SENECA MEADOWS STAGE 7-8 20180312

Lab Sample ID: 480-132499-1

Date Collected: 03/12/18 13:00

Matrix: Water

Date Received: 03/13/18 10:45

Method: 537 (modified) - Fluorinated Alkyl Substances - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2FTS	200	U	2000	200	ng/L		03/26/18 16:46	03/27/18 16:39	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C4 PFBA	36	*	25 - 150				03/26/18 16:46	03/27/18 16:39	10
M2-6:2FTS	275	*	25 - 150				03/26/18 16:46	03/27/18 16:39	10
M2-8:2FTS	125	*	25 - 150				03/26/18 16:46	03/27/18 16:39	10

Client Sample ID: SENECA MEADOWS SOUTHEAST1 20180312

Lab Sample ID: 480-132499-2

Date Collected: 03/12/18 13:20

Matrix: Water

Date Received: 03/13/18 10:45

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	310	E	2.0	1.0	ug/L		03/14/18 14:09	03/19/18 23:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	38		15 - 110				03/14/18 14:09	03/19/18 23:45	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1060		20.0	4.90	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorohexanoic acid (PFHxA)	3200		20.0	5.80	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluoroheptanoic acid (PFHpA)	949		20.0	2.50	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorooctanoic acid (PFOA)	2480		20.0	8.50	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorononanoic acid (PFNA)	140		20.0	2.70	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorodecanoic acid (PFDA)	49.9		20.0	3.10	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluoroundecanoic acid (PFUnA)	11.0	U	20.0	11.0	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorododecanoic acid (PFDoA)	5.50	U	20.0	5.50	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorotridecanoic Acid (PFTriA)	13.0	U	20.0	13.0	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorotetradecanoic acid (PFTeA)	2.90	U	20.0	2.90	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorohexanesulfonic acid (PFHxS)	464	B	20.0	1.70	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	U	20.0	1.90	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorooctanesulfonic acid (PFOS)	189		20.0	5.40	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorodecanesulfonic acid (PFDS)	3.20	U	20.0	3.20	ng/L		03/26/18 16:46	03/27/18 12:13	1
Perfluorooctane Sulfonamide (FOSA)	3.50	U	20.0	3.50	ng/L		03/26/18 16:46	03/27/18 12:13	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	40.9	J	200	31.0	ng/L		03/26/18 16:46	03/27/18 12:13	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	19.0	U	200	19.0	ng/L		03/26/18 16:46	03/27/18 12:13	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C5 PFPeA	45		25 - 150				03/26/18 16:46	03/27/18 12:13	1
¹³ C2 PFHxA	65		25 - 150				03/26/18 16:46	03/27/18 12:13	1
¹³ C4-PFHpA	80		25 - 150				03/26/18 16:46	03/27/18 12:13	1
¹³ C4 PFOA	72		25 - 150				03/26/18 16:46	03/27/18 12:13	1
¹³ C5 PFNA	115		25 - 150				03/26/18 16:46	03/27/18 12:13	1
¹³ C2 PFDA	131		25 - 150				03/26/18 16:46	03/27/18 12:13	1
¹³ C2 PFUnA	118		25 - 150				03/26/18 16:46	03/27/18 12:13	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

**Client Sample ID: SENECA MEADOWS SOUTHEAST1
20180312**

Lab Sample ID: 480-132499-2

Date Collected: 03/12/18 13:20

Matrix: Water

Date Received: 03/13/18 10:45

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	90		25 - 150	03/26/18 16:46	03/27/18 12:13	1
13C2-PFTeDA	46		25 - 150	03/26/18 16:46	03/27/18 12:13	1
18O2 PFHxS	117		25 - 150	03/26/18 16:46	03/27/18 12:13	1
13C4 PFOS	132		25 - 150	03/26/18 16:46	03/27/18 12:13	1
13C8 FOSA	116		25 - 150	03/26/18 16:46	03/27/18 12:13	1
d3-NMeFOSAA	147		25 - 150	03/26/18 16:46	03/27/18 12:13	1
d5-NEtFOSAA	151 *		25 - 150	03/26/18 16:46	03/27/18 12:13	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2890	D B	200	35.0	ng/L		03/26/18 16:46	03/27/18 16:47	10
Perfluorobutanesulfonic acid (PFBS)	9190	D	200	20.0	ng/L		03/26/18 16:46	03/27/18 16:47	10
6:2FTS	299	J D	2000	200	ng/L		03/26/18 16:46	03/27/18 16:47	10
8:2FTS	200	U	2000	200	ng/L		03/26/18 16:46	03/27/18 16:47	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	36 *		25 - 150	03/26/18 16:46	03/27/18 16:47	10
13C3-PFBS	78 *		25 - 150	03/26/18 16:46	03/27/18 16:47	10
M2-6:2FTS	239 *		25 - 150	03/26/18 16:46	03/27/18 16:47	10
M2-8:2FTS	104 *		25 - 150	03/26/18 16:46	03/27/18 16:47	10

**Client Sample ID: SENECA MEADOWS RAWLEACHATE
20180312**

Lab Sample ID: 480-132499-3

Date Collected: 03/12/18 12:45

Matrix: Water

Date Received: 03/13/18 10:45

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	220	E	2.0	1.0	ug/L		03/14/18 14:09	03/20/18 00:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110	03/14/18 14:09	03/20/18 00:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	582		20.0	4.90	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluorohexanoic acid (PFHxA)	2150		20.0	5.80	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluoroheptanoic acid (PFHpA)	491		20.0	2.50	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluorooctanoic acid (PFOA)	1690		20.0	8.50	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluorononanoic acid (PFNA)	94.3		20.0	2.70	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluorodecanoic acid (PFDA)	66.4		20.0	3.10	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluoroundecanoic acid (PFUnA)	11.0	U	20.0	11.0	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluorododecanoic acid (PFDoA)	5.50	U	20.0	5.50	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluorotridecanoic Acid (PFTriA)	13.0	U	20.0	13.0	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluorotetradecanoic acid (PFTeA)	2.90	U	20.0	2.90	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluorohexanesulfonic acid (PFHxS)	447	B	20.0	1.70	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	U	20.0	1.90	ng/L		03/26/18 16:46	03/27/18 12:21	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

**Client Sample ID: SENECA MEADOWS RAWLEACHATE
20180312**

Lab Sample ID: 480-132499-3

Date Collected: 03/12/18 12:45

Matrix: Water

Date Received: 03/13/18 10:45

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	173		20.0	5.40	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluorodecanesulfonic acid (PFDS)	3.20	U	20.0	3.20	ng/L		03/26/18 16:46	03/27/18 12:21	1
Perfluorooctane Sulfonamide (FOSA)	3.90	J	20.0	3.50	ng/L		03/26/18 16:46	03/27/18 12:21	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	78.5	J	200	31.0	ng/L		03/26/18 16:46	03/27/18 12:21	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	73.2	J	200	19.0	ng/L		03/26/18 16:46	03/27/18 12:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFPeA	46		25 - 150				03/26/18 16:46	03/27/18 12:21	1
13C2 PFHxA	64		25 - 150				03/26/18 16:46	03/27/18 12:21	1
13C4-PFHpA	78		25 - 150				03/26/18 16:46	03/27/18 12:21	1
13C4 PFOA	74		25 - 150				03/26/18 16:46	03/27/18 12:21	1
13C5 PFNA	110		25 - 150				03/26/18 16:46	03/27/18 12:21	1
13C2 PFDA	131		25 - 150				03/26/18 16:46	03/27/18 12:21	1
13C2 PFUnA	117		25 - 150				03/26/18 16:46	03/27/18 12:21	1
13C2 PFDoA	94		25 - 150				03/26/18 16:46	03/27/18 12:21	1
13C2-PFTeDA	34		25 - 150				03/26/18 16:46	03/27/18 12:21	1
18O2 PFHxS	109		25 - 150				03/26/18 16:46	03/27/18 12:21	1
13C4 PFOS	130		25 - 150				03/26/18 16:46	03/27/18 12:21	1
13C8 FOSA	115		25 - 150				03/26/18 16:46	03/27/18 12:21	1
d3-NMeFOSAA	145		25 - 150				03/26/18 16:46	03/27/18 12:21	1
d5-NEtFOSAA	147		25 - 150				03/26/18 16:46	03/27/18 12:21	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1770	D B	200	35.0	ng/L		03/26/18 16:46	03/27/18 16:55	10
Perfluorobutanesulfonic acid (PFBS)	5010	D	200	20.0	ng/L		03/26/18 16:46	03/27/18 16:55	10
6:2FTS	218	J D	2000	200	ng/L		03/26/18 16:46	03/27/18 16:55	10
8:2FTS	200	U	2000	200	ng/L		03/26/18 16:46	03/27/18 16:55	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	39	*	25 - 150				03/26/18 16:46	03/27/18 16:55	10
13C3-PFBS	76	*	25 - 150				03/26/18 16:46	03/27/18 16:55	10
M2-6:2FTS	227	*	25 - 150				03/26/18 16:46	03/27/18 16:55	10
M2-8:2FTS	111	*	25 - 150				03/26/18 16:46	03/27/18 16:55	10

**Client Sample ID: SENECA MEADOWS CONCENTRATE
20180312**

Lab Sample ID: 480-132499-4

Date Collected: 03/12/18 12:25

Matrix: Water

Date Received: 03/13/18 10:45

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	530	E	2.0	1.0	ug/L		03/14/18 14:09	03/20/18 00:33	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

**Client Sample ID: SENECA MEADOWS CONCENTRATE
20180312**

Lab Sample ID: 480-132499-4

Date Collected: 03/12/18 12:25

Matrix: Water

Date Received: 03/13/18 10:45

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,4-Dioxane-d8	41		15 - 110				03/14/18 14:09	03/20/18 00:33	1
Method: 537 (modified) - Fluorinated Alkyl Substances									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1440		20.0	4.90	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluoroheptanoic acid (PFHpA)	1270		20.0	2.50	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluorononanoic acid (PFNA)	515		20.0	2.70	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluorodecanoic acid (PFDA)	414		20.0	3.10	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluoroundecanoic acid (PFUnA)	34.1		20.0	11.0	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluorododecanoic acid (PFDoA)	11.7	J	20.0	5.50	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluorotridecanoic Acid (PFTriA)	13.0	U	20.0	13.0	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluorotetradecanoic acid (PFTeA)	2.90	U	20.0	2.90	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluorohexanesulfonic acid (PFHxS)	1150	B	20.0	1.70	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	5.35	J	20.0	1.90	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluorooctanesulfonic acid (PFOS)	984		20.0	5.40	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluorodecanesulfonic acid (PFDS)	3.30	J	20.0	3.20	ng/L		03/26/18 16:46	03/27/18 12:29	1
Perfluorooctane Sulfonamide (FOSA)	41.3		20.0	3.50	ng/L		03/26/18 16:46	03/27/18 12:29	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	333		200	31.0	ng/L		03/26/18 16:46	03/27/18 12:29	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	317		200	19.0	ng/L		03/26/18 16:46	03/27/18 12:29	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFPeA	33		25 - 150				03/26/18 16:46	03/27/18 12:29	1
13C4-PFHpA	75		25 - 150				03/26/18 16:46	03/27/18 12:29	1
13C5 PFNA	112		25 - 150				03/26/18 16:46	03/27/18 12:29	1
13C2 PFDA	151	*	25 - 150				03/26/18 16:46	03/27/18 12:29	1
13C2 PFUnA	136		25 - 150				03/26/18 16:46	03/27/18 12:29	1
13C2 PFDoA	91		25 - 150				03/26/18 16:46	03/27/18 12:29	1
13C2-PFTeDA	22	*	25 - 150				03/26/18 16:46	03/27/18 12:29	1
18O2 PFHxS	119		25 - 150				03/26/18 16:46	03/27/18 12:29	1
13C4 PFOS	138		25 - 150				03/26/18 16:46	03/27/18 12:29	1
13C8 FOSA	113		25 - 150				03/26/18 16:46	03/27/18 12:29	1
d3-NMeFOSAA	170	*	25 - 150				03/26/18 16:46	03/27/18 12:29	1
d5-NEtFOSAA	177	*	25 - 150				03/26/18 16:46	03/27/18 12:29	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	5370	D	200	58.0	ng/L		03/26/18 16:46	03/27/18 17:03	10
Perfluorooctanoic acid (PFOA)	4160	D	200	85.0	ng/L		03/26/18 16:46	03/27/18 17:03	10
Perfluorobutanesulfonic acid (PFBS)	15200	D	200	20.0	ng/L		03/26/18 16:46	03/27/18 17:03	10
6:2FTS	570	J D	2000	200	ng/L		03/26/18 16:46	03/27/18 17:03	10
8:2FTS	216	J D	2000	200	ng/L		03/26/18 16:46	03/27/18 17:03	10

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Client Sample ID: SENECA MEADOWS CONCENTRATE 20180312

Lab Sample ID: 480-132499-4

Date Collected: 03/12/18 12:25

Matrix: Water

Date Received: 03/13/18 10:45

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	57	*	25 - 150	03/26/18 16:46	03/27/18 17:03	10
13C4 PFOA	71	*	25 - 150	03/26/18 16:46	03/27/18 17:03	10
13C3-PFBS	58	*	25 - 150	03/26/18 16:46	03/27/18 17:03	10
M2-6:2FTS	257	*	25 - 150	03/26/18 16:46	03/27/18 17:03	10
M2-8:2FTS	147	*	25 - 150	03/26/18 16:46	03/27/18 17:03	10

Method: 537 (modified) - Fluorinated Alkyl Substances - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4520	D B	2000	350	ng/L		03/26/18 16:46	03/27/18 11:42	100

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	44	*	25 - 150	03/26/18 16:46	03/27/18 11:42	100

Client Sample ID: SENECA MEADOWS PERMEATE 20180312

Lab Sample ID: 480-132499-5

Date Collected: 03/12/18 12:35

Matrix: Water

Date Received: 03/13/18 10:45

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.21		0.20	0.10	ug/L		03/14/18 14:09	03/20/18 00:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110	03/14/18 14:09	03/20/18 00:58	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.46	J B	1.80	0.31	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluoropentanoic acid (PFPeA)	0.44	U	1.80	0.44	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorohexanoic acid (PFHxA)	0.52	U	1.80	0.52	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluoroheptanoic acid (PFHpA)	0.22	U	1.80	0.22	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorooctanoic acid (PFOA)	0.76	U	1.80	0.76	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorononanoic acid (PFNA)	0.24	U	1.80	0.24	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorodecanoic acid (PFDA)	0.28	U	1.80	0.28	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluoroundecanoic acid (PFUnA)	0.99	U	1.80	0.99	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorododecanoic acid (PFDoA)	0.49	U	1.80	0.49	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorotridecanoic Acid (PFTriA)	1.17	U	1.80	1.17	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorotetradecanoic acid (PFTeA)	0.26	U	1.80	0.26	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	1.80	0.18	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	J B	1.80	0.15	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.17	U	1.80	0.17	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorooctanesulfonic acid (PFOS)	0.49	U	1.80	0.49	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorodecanesulfonic acid (PFDS)	0.29	U	1.80	0.29	ng/L		03/26/18 16:46	03/27/18 11:10	1
Perfluorooctane Sulfonamide (FOSA)	0.31	U	1.80	0.31	ng/L		03/26/18 16:46	03/27/18 11:10	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2.79	U	18.0	2.79	ng/L		03/26/18 16:46	03/27/18 11:10	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.71	U	18.0	1.71	ng/L		03/26/18 16:46	03/27/18 11:10	1
6:2FTS	1.80	U	18.0	1.80	ng/L		03/26/18 16:46	03/27/18 11:10	1
8:2FTS	1.80	U	18.0	1.80	ng/L		03/26/18 16:46	03/27/18 11:10	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Client Sample ID: SENECA MEADOWS PERMEATE 20180312

Lab Sample ID: 480-132499-5

Date Collected: 03/12/18 12:35

Matrix: Water

Date Received: 03/13/18 10:45

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	87		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C5 PFPeA	88		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C2 PFHxA	83		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C4-PFHpA	86		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C4 PFOA	82		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C5 PFNA	82		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C2 PFDA	80		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C2 PFUnA	74		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C2 PFDoA	71		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C2-PFTeDA	78		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C3-PFBS	90		25 - 150	03/26/18 16:46	03/27/18 11:10	1
18O2 PFHxS	85		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C4 PFOS	85		25 - 150	03/26/18 16:46	03/27/18 11:10	1
13C8 FOSA	77		25 - 150	03/26/18 16:46	03/27/18 11:10	1
d3-NMeFOSAA	71		25 - 150	03/26/18 16:46	03/27/18 11:10	1
d5-NEtFOSAA	76		25 - 150	03/26/18 16:46	03/27/18 11:10	1
M2-6:2FTS	108		25 - 150	03/26/18 16:46	03/27/18 11:10	1
M2-8:2FTS	90		25 - 150	03/26/18 16:46	03/27/18 11:10	1

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Client Sample ID: SENECA MEADOWS STAGE 7-8 20180312

Lab Sample ID: 480-132499-1

Date Collected: 03/12/18 13:00

Matrix: Water

Date Received: 03/13/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			404016	03/14/18 14:09	RLT	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	404658	03/19/18 23:21	DMR	TAL BUF
Total/NA	Prep	3535			214903	03/26/18 16:46	TWL	TAL SAC
Total/NA	Analysis	537 (modified)		1	214986	03/27/18 12:05	ABH	TAL SAC
Total/NA	Prep	3535	DL		214903	03/26/18 16:46	TWL	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10	215127	03/27/18 16:39	ABH	TAL SAC

Client Sample ID: SENECA MEADOWS SOUTHEAST1 20180312

Lab Sample ID: 480-132499-2

Date Collected: 03/12/18 13:20

Matrix: Water

Date Received: 03/13/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			404016	03/14/18 14:09	RLT	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	404658	03/19/18 23:45	DMR	TAL BUF
Total/NA	Prep	3535			214903	03/26/18 16:46	TWL	TAL SAC
Total/NA	Analysis	537 (modified)		1	214986	03/27/18 12:13	ABH	TAL SAC
Total/NA	Prep	3535	DL		214903	03/26/18 16:46	TWL	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10	215127	03/27/18 16:47	ABH	TAL SAC

Client Sample ID: SENECA MEADOWS RAWLEACHATE 20180312

Lab Sample ID: 480-132499-3

Date Collected: 03/12/18 12:45

Matrix: Water

Date Received: 03/13/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			404016	03/14/18 14:09	RLT	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	404658	03/20/18 00:09	DMR	TAL BUF
Total/NA	Prep	3535			214903	03/26/18 16:46	TWL	TAL SAC
Total/NA	Analysis	537 (modified)		1	214986	03/27/18 12:21	ABH	TAL SAC
Total/NA	Prep	3535	DL		214903	03/26/18 16:46	TWL	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10	215127	03/27/18 16:55	ABH	TAL SAC

Client Sample ID: SENECA MEADOWS CONCENTRATE 20180312

Lab Sample ID: 480-132499-4

Date Collected: 03/12/18 12:25

Matrix: Water

Date Received: 03/13/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			404016	03/14/18 14:09	RLT	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	404658	03/20/18 00:33	DMR	TAL BUF
Total/NA	Prep	3535	DL2		214903	03/26/18 16:46	TWL	TAL SAC
Total/NA	Analysis	537 (modified)	DL2	100	214986	03/27/18 11:42	ABH	TAL SAC

TestAmerica Buffalo

Lab Chronicle

Client: New York State D.E.C.
 Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			214903	03/26/18 16:46	TWL	TAL SAC
Total/NA	Analysis	537 (modified)		1	214986	03/27/18 12:29	ABH	TAL SAC
Total/NA	Prep	3535	DL		214903	03/26/18 16:46	TWL	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10	215127	03/27/18 17:03	ABH	TAL SAC

Client Sample ID: SENECA MEADOWS PERMEATE 20180312

Lab Sample ID: 480-132499-5

Date Collected: 03/12/18 12:35

Matrix: Water

Date Received: 03/13/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			404016	03/14/18 14:09	RLT	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	404658	03/20/18 00:58	DMR	TAL BUF
Total/NA	Prep	3535			214903	03/26/18 16:46	TWL	TAL SAC
Total/NA	Analysis	537 (modified)		1	214986	03/27/18 11:10	ABH	TAL SAC

Laboratory References:

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

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New York State D.E.C.
 Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

Laboratory: TestAmerica Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11666	04-01-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte	
537 (modified)	3535	Water	6:2FTS	
537 (modified)	3535	Water	8:2FTS	
537 (modified)	3535	Water	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	
537 (modified)	3535	Water	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)	
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)	
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)	
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)	
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)	
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)	
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)	
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)	
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)	
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)	
537 (modified)	3535	Water	Perfluorooctane Sulfonamide (FOSA)	
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)	
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)	
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)	
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)	
537 (modified)	3535	Water	Perfluorotridecanoic Acid (PFTriA)	
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)	
USEPA UCMR	Federal	1	CA00044	11-06-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	6:2FTS
537 (modified)	3535	Water	8:2FTS
537 (modified)	3535	Water	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Laboratory: TestAmerica Sacramento (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
USEPA UCMR	Federal	1	CA00044	11-06-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctane Sulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic Acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

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

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.
Project/Site: Seneca Meadows LF - Region 8

TestAmerica Job ID: 480-132499-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-132499-1	SENECA MEADOWS STAGE 7-8 20180312	Water	03/12/18 13:00	03/13/18 10:45
480-132499-2	SENECA MEADOWS SOUTHEAST1 20180312	Water	03/12/18 13:20	03/13/18 10:45
480-132499-3	SENECA MEADOWS RAWLEACHATE 20180312	Water	03/12/18 12:45	03/13/18 10:45
480-132499-4	SENECA MEADOWS CONCENTRATE 20180312	Water	03/12/18 12:25	03/13/18 10:45
480-132499-5	SENECA MEADOWS PERMEATE 20180312	Water	03/12/18 12:35	03/13/18 10:45

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part # 159469-434 RT2 EXP 01/19

ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

SHIP DATE: 13MAR18
ACTWGT: 40.80 LB
CAD: 846654/CAFE3108
DIMS: 22x14x11 IN

AMHERST, NY 14228
UNITED STATES US

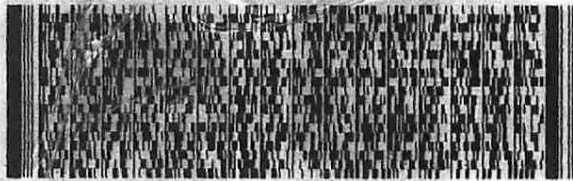
BILL RECIPIENT

TO **SAMPLE RECEIVING
TA SACRAMENTO
880 RIVERSIDE PARKWAY**

WEST SACRAMENTO CA 95605

(916) 378-5600
DEPT: SQ

REF: SACRAMENTO



FedEx
Express



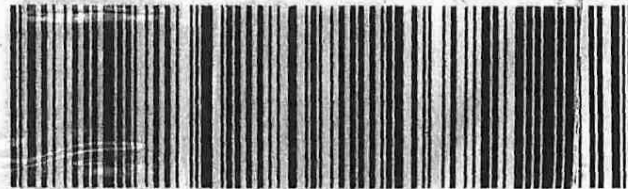
0100201910117

TRK# 4276 0716 4790
0201

**WED - 14 MAR 3:00P
STANDARD OVERNIGHT**

XH BLUA

**95605
CA-US SMF**



Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-132499-1

Login Number: 132499

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

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.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-132499-1

Login Number: 132499

List Number: 2

Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento

List Creation: 03/17/18 10:31 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	1.0
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?	False	Received project as a subcontract.
There are no discrepancies between the containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

TestAmerica Buffalo
 10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record



COC No: 480-110320-25621
 Page: 1 of 1
 Job #: 480-132499 COC

Client Information
 Client Contact: Mackenzie Osyplan
 Company: Mackenzie Osyplan
 New York State D.E.C.
 Address: 6274 E. Avon-Lima Rd.
 City: Avon
 State, Zip: NY, 14414
 Phone: 518-402-8671(Tel)
 Email: Mackenzie.Osyplan@dec.ny.gov
 Project Name: Leachates-Seneca Meadows LF
 Site: Seneca Meadows LF

Sampler: Mike Miles
 Phone: 585-500-9352
 Lab PM: Johnson, Oriette S
 E-Mail: oriette.johnson@testamericainc.com
 Carrier Tracking No(s):
 Due Date Requested:
 TAT Requested (days): 10 day
 PO #: 30266 VIKAROR3
 Callout ID: Chautauque Landfill
 WO #:
 Project #: 48017692
 SSO#: 30266 VIKAROR3

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/solid)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC, IDA - PFAS, Standard List (21 Analytes)	8270D, SIM, MS, ID - SIM 1,4-Dioxane	Analysis Requested		Special Instructions/Note:
									Total Number of Containers		
Seneca Meadows Stage 7-8 20180312	3/12/18	1300	G	Water	X	X	N	N			
Seneca Meadows South East 1 20180313	3/13/18	1330	G	Water	X	X	N	N			
Seneca Meadows Rawleachate 20180313	3/13/18	1345	G	Water	X	X	N	N			
Seneca Meadows Concentrate 20180313	3/13/18	1225	G	Water	X	X	N	N			
Seneca Meadows Permeate 20180312	3/12/18	1235	G	Water	X	X	N	N			

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

Deliverable Requested: I, II, III, IV, Other (specify)
 CAT 15 NYS DEC EDD

Empty Kit Relinquished by: *Mackenzie Osyplan* Date: 3/12/18 3:18PM
 Relinquished by: *Mackenzie Osyplan* Date: 3/12/18 3:18PM
 Relinquished by: *Mackenzie Osyplan* Date: 3/12/18 3:18PM

Received by: *Yvonne* Date/Time: 3/13/18 10:45
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Company: _____
 Company: _____
 Company: _____

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

Special Instructions/QC Requirements:

Method of Shipment: _____
 Date/Time: _____
 Date/Time: _____
 Date/Time: _____

Cooler Temperature(s) °C and Other Remarks: \$ 312

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Johnson, Oriette S		Carrier Tracking No(s): 480-40837-1	
Client Contact: West Sacramento		E-Mail: oriette.johnson@testamericainc.com		Page: Page 1 of 1	
Shipping/Receiving: CA, 95605		State of Origin: New York		Job #: 480-132499-1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): Federal - USEPA UCMR; NELAP - New York		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDA Other:	
Address: 880 Riverside Parkway		Due Date Requested: 3/23/2018		Analysis Requested	
City: West Sacramento		TAT Requested (days):		Total Number of Containers	
State, Zip: CA, 95605		PO #:		Field Filtered Sample (Yes or No)	
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		WO #:		Perform MS/MSD (Yes or No)	
Email:		Project #: 48017692		PFC (DA/VA/335 PFC PFAS, Standard List (21 Analytes))	
Leachates-PFCs, Dioxanes - Region 8		SSCW#:		Special Instructions/Note:	
Site:		Sample Date		Sample Time	
Sample Identification - Client ID (Lab ID)		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, Other)	
SENECA MEADOWS STAGE 7-8 20180312 (480-132499-1)		13:00 Eastern		Water	
SENECA MEADOWS SOUTHEAST1 20180312 (480-132499-2)		13:20 Eastern		Water	
SENECA MEADOWS RAWLEACHATE 20180312 (480-132499-3)		12:45 Eastern		Water	
SENECA MEADOWS CONCENTRATE 20180312 (480-132499-4)		12:25 Eastern		Water	
SENECA MEADOWS PERMATE 20180312 (480-132499-5)		12:35 Eastern		Water	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 1

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 3/13/18 1730 Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: 0.1°C

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

Special Instructions/QC Requirements:

Method of Shipment: _____
 Date/Time: 3-14-18 0915 Company: IA W SAC
 Date/Time: _____ Company: _____
 Date/Time: _____ Company: _____

