NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
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www.dec.ny.gov

March 23, 2020

Mr. George Meyers, Supervisor
Town of New Windsor
555 Union Avenue
New Windsor, New York 12553

Re: New Windsor Public Water Supply Well 21 PFAS Sample Results
Butterhill Wellfield, New Windsor (T), Orange County

Dear Supervisor Meyers:

The New York State Department of Environmental Conservation (DEC) is providing you with a copy of analytical results derived from the **March 6, 2020** sampling of the temporary granular activated carbon (GAC) water treatment system by DEC representatives that was installed at the Town of New Windsor (Town) Butterhill Wellfield located at 181 Forge Hill Road.

No PFOS or PFOA was detected in the Butterhill temporary GAC-treated water. The U.S. Environmental Protection Agency (EPA) lifetime health advisory level (HAL) is 70 parts per trillion (ppt) for PFOA, PFOS, or the combination of PFOA and PFOS. The proposed NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

Specifically, the samples were analyzed for a total of six and twenty-one per- and polyfluoroalkyl substances (PFAS), including Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS). Data received for the 21 PFAS list analysis has been attached. Please note that the sampling data associated with the 6 PFAS list was recently provided to the Town under separate letter after receipt and review by DEC and the New York State Department of Health (DOH).

During this event, sampling for the 21 PFAS list was conducted at 23 locations. Recall that ,starting in February 2020, the decision was made to begin including mid-bed sampling for 21 PFAS analysis on the GAC lag units (9 additional sampling locations).

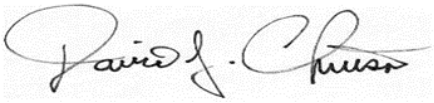
- pre-treatment (raw untreated water), which has a “BH20200306PRE-GAC” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20200306-1North-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20200306-1North-50” identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20200306-1North-75” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20200306-2North-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20200306-2North-50” identifier in the Client Sample ID;

- 75 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20200306-2North-75” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20200306-3North-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20200306-3North-50” identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20200306-3North-75” identifier in the Client Sample ID;
- Butterhill Well No.1 raw untreated water; which has a “BH20200306-1RAW” identifier in the Client Sample ID;
- Butterhill Well No.2 raw untreated water; which has a “BH20200306-2RAW” identifier in the Client Sample ID;
- Butterhill Well No.3 raw untreated water; which has a “BH20200306-3RAW” identifier in the Client Sample ID;
- Post-treatment (treated water after all GAC trains), which has a “BH20200306POST-GAC” identifier in the Client Sample ID.
- 25 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20200306-1S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20200306-1S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20200306-1S-75” identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20200306-2S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20200306-2S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20200306-2S-75” identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20200306-3S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20200306-3S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20200306-3S-75” identifier in the Client Sample ID;

The 23 locations sampled (and their associated identifiers) are depicted in Figure 1.

If you have any technical questions regarding the analytical results or on the operation and performance of the GAC treatment system, please feel free to contact me or Dana Bryant, P.E., Arcadis (DEC's Project Engineer) at (518) 250-7347 or dana.bryant@arcadis.com . For weekday or off hour / weekend emergency repair issues, please call DEC's contractor, Carl Aldrich of Aztech Environmental Services at (518) 470-3052 or Todd Rollend at (518) 365-3333. For questions regarding site-related health concerns, please contact Steve Gagnon of the Orange County DOH at (845) 291-2331 or Steve Gladding, P.E., Ph.D of the NYSDOH Bureau of Water Supply Protection at (518) 402-7650; email: steven.gladding@health.ny.gov .

Sincerely,



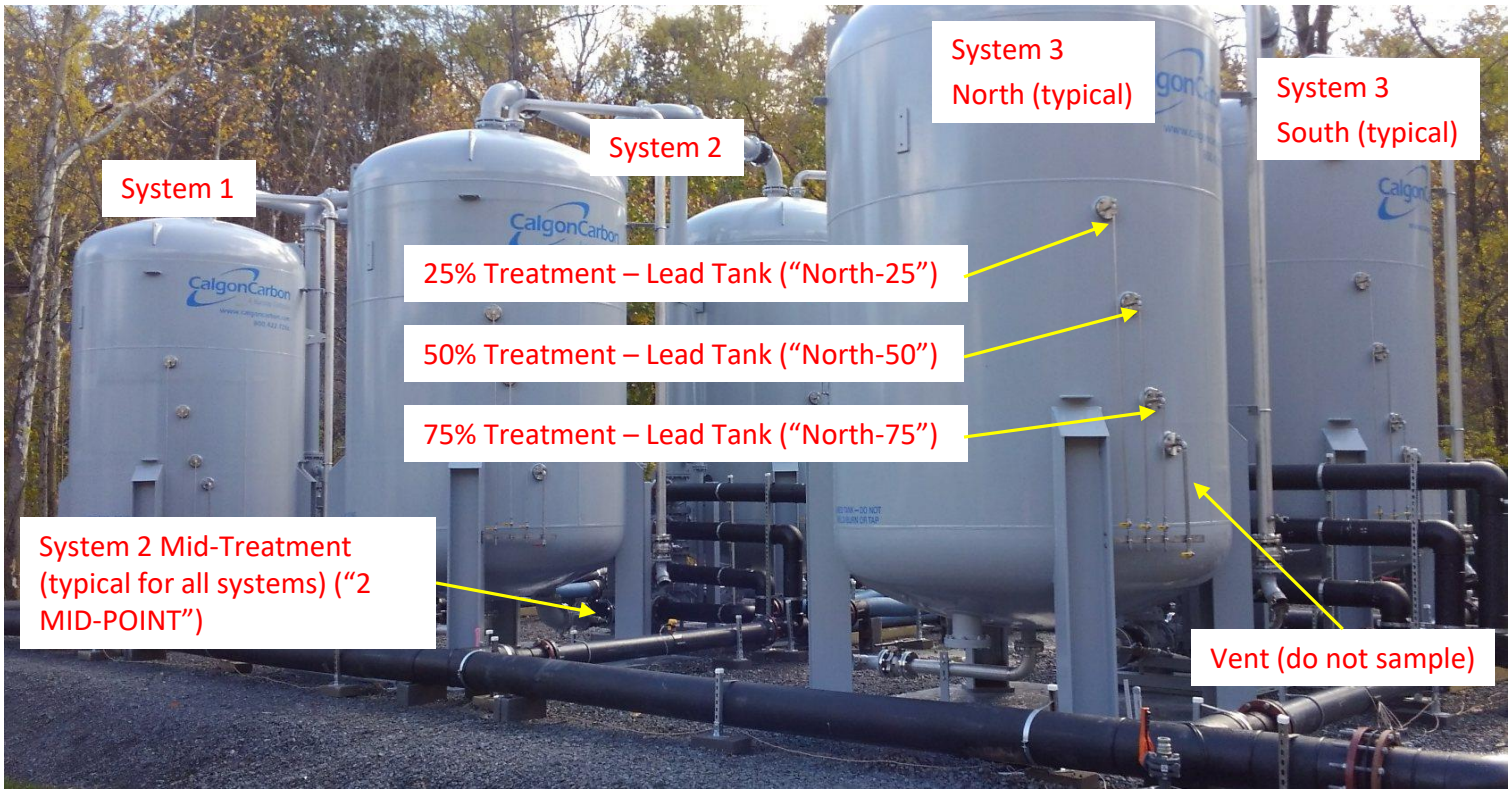
David J. Chiusano
Environmental Engineer/Project Manager
Remedial Section A, Remedial Bureau E
Division of Environmental Remediation

Enclosures

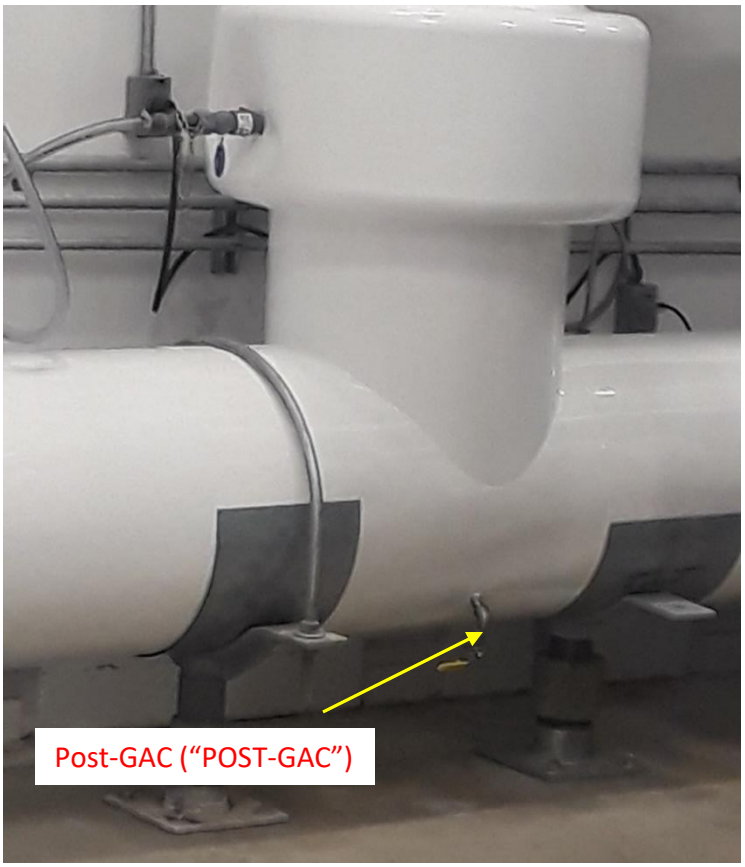
ec: w/enclosures
D. Zagon, Town of New Windsor
J. Egitto, Town of New Windsor
M. Weeks, MHE
W. Gilday, NYSDOH
Dr. Kim, NYSDOH
S. Gladding, NYSDOH
S. Gagnon, OCDOH
M. Andersen, OCDOH
D. Bryant, Arcadis
F. Fina, Aztech
M. Cruden, NYSDEC
D. Bendell, Region 3 RHWRE
D. Harrington, NYSDEC

Figure 1
Sampling Locations

Butterhill Plant Temporary GAC Treatment System



Post-Filters, Pre-GAC ("PRE-GAC")



- 25%, 50%, 75% Treatment sample locations repeated on the current Lag "South" Tanks.
- Post-treatment samples for each individual System can be collected after each Lag Tank, mirrored sample location to MID-POINT sample location on Lead Tanks.

Town of New Windsor

Butterhill Wellfield Temporary GAC Operation and Maintenance PFOA and PFOS Sampling Results * (Parts Per Trillion (PPT))

Date	Analyte	Well 1[1] Raw Water	Well 2 Raw Water	Well 3 Raw Water	Pre GAC Raw Water	GAC Pair 1 Lead 25%(North)	GAC Pair 1 Lead 50%(North)	GAC Pair 1 Lead 75%(North)	GAC Pair 2 Lead 25% (North)	GAC Pair 2 Lead 50%(North)	GAC Pair 2 Lead 75%(North)	GAC Pair 3 Lead 25%(North)	GAC Pair 3 Lead 50%(North)	GAC Pair 3 Lead 75%(North)	Post GAC Treated Effluent	USEPA Drinking Water Health Advisory Guidance Value[3]	Proposed NYS MCLs[4]
December 2019 (Well 3)	PFOA	2.6	3.5	5.0	2.5	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	70[3]	10[4]
	PFOS	3.7	2.4	8.9	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70[3]	10[4]
January 2020 (Well 2)	PFOA	2.4	3.5	3.9	3.3	ND	ND	ND	2.2	ND	ND	1.8	ND	ND	ND	70[3]	10[4]
	PFOS	3.3	2.4	7.7	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70[3]	10[4]
February 2020 (Well 2)	PFOA	3.1	3.9	3.6	3.3	ND	ND	ND	2.7	ND	ND	2.3	ND	ND	ND	70[3]	10[4]
	PFOS	3.6	2.7	6.0	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70[3]	10[4]
March 2020 (Well 1**)	PFOA	2.5	2.9	2.9	2.5	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	70[3]	10[4]
	PFOS	3.6	2.8	5.4	3.3	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	70[3]	10[4]

Date	Analyte	GAC Pair 1 Lag 25%(South)	GAC Pair 1 Lag 50% (South)	GAC Pair 1 Lag 75%(South)	GAC Pair 2 Lag 25% (South)	GAC Pair 2 Lag 50%(South)	GAC Pair 2 Lag 75%(South)	GAC Pair 3 Lag 25%(South)	GAC Pair 3 Lag 50%(South)	GAC Pair 3 Lag 75%(South)	USEPA Drinking Water Health Advisory Guidance Value[3]	Proposed NYS MCLs[4]
February 2020 (Well 2)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	70[3]	10[4]
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	70[3]	10[4]
March 2020 (Well 1**)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	70[3]	10[4]
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	70[3]	10[4]

Notes:

***** 21 PFAS List Analysis**.**

** At time of sampling Production Well No. 1 was in operation.

1. PFOS and PFOA results and comparison values are reported in parts per trillion (ppt, nanograms per liter, ng/l).
2. “ND” means non-detect. The analyte was not detected in the sample.
3. Guidance: USEPA Drinking Water Health Advisory guidance value is currently 70 ppt.
4. The proposed NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

How to Read Your Laboratory Reports

PFOA and PFOS Results:

- Analyte is the term used to describe what the laboratory was testing for, in this case PFOS and PFOA.
- Conc. (ng/l) is your result for PFOS and PFOA. In your case, no PFOS and PFOA were detected, thus ND or "non-detect" or <2.0 ng/l was reported. (ng/l = ppt)
- RL = reporting limit or RDL = reportable detection limit is the lowest level at which this specific testing protocol and laboratory has confidence in measuring the given analyte.
- Qualifiers are added information to help understand the quality of the data. Often, if something about the results or the calibration of the testing equipment was irregular, it would be reported here.

All other columns represent laboratory quality control information. The laboratory calibrates its equipment against a precise quantity of the chemical in order to ensure that the equipment is functioning properly. Some laboratory reports may not have all this information.

- Labeled Standard or Surrogate is the lab's specific name for an individual control sample.
- %R is the percent of the control sample that was detected by the equipment. A 100% reading represents perfect equipment alignment.
- LCL-UCL is the lower concentration limit (LCL) and upper concentration limit (UCL). The LCL represents the lowest acceptable %R value and the UCL represent the highest acceptable %R value required to ensure your result is accurate.
- Qualifiers: If a result quality control variance is noted or I the %R value of any of the control samples were outside the allowable range that would have been noted in this last column. This gives the analyst less confidence in the measured value.

The analysis for PFOS and PFOA is performed using modified EPA Method 537. The laboratory may report a detection of PFOS and PFOA down to approximately 2.0 nanograms per liter (ng/l) or parts per trillion (ppt).

Inorganic Results:

- Parameter is the same as "analyte" above – it is the chemical being tested.
- Result is the concentration of that chemical detected.
- RL/PQL is the lowest level at which the specific laboratory test can reliably quantify the concentration. Below that number, the result is considered unreliable.
- DIL is the number of times the sample was diluted (necessary because the test has a certain range that it is accurate for).
- Units: mg/l is milligrams per liter or parts per million; ug/l is micrograms per liter or parts per billion.
- DW MCL stands for drinking water (DW) and "maximum contaminant level" (MCL). All chemicals that have a "maximum contaminant level" (MCL) established for drinking water (DW) have a level reported in this column.

- Sec Goal is the EPA nomenclature for all contaminants that have regulatory levels set based on aesthetics (for example, taste or color). DOH recognizes these EPA secondary goals as primary standards and enforces its drinking water quality program accordingly.
- Date/Time represents the date and time of the analysis at the lab.
- By refers to the technician who ran the test.
- Reference indicates the EPA method used in the test.

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ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-59289-1
Client Project/Site: Stewart ANGB - Butterhill #336089

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Mr. Dave Chiusano

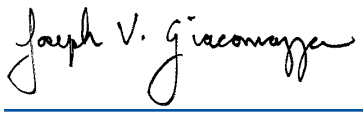
Joseph V. Giacomazza

Authorized for release by:
3/17/2020 9:40:13 AM
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
judy.stone@testamericainc.com

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
3/17/2020 9:40:13 AM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Qualifiers

LCMS

Qualifier	Qualifier Description
*5	Isotope dilution analyte is outside acceptance 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
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: Stewart ANGB - Butterhill #336089

Job ID: 320-59289-1

Job ID: 320-59289-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-59289-1

Comments
No additional comments.

Receipt
The samples were received on 3/7/2020 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.3º C and 0.4º C.

LCMS
Method 537 (modified): The “I” qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgement was used to positively identify the analyte.
(CCVL 320-363536/2)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS the following sample: BH20200306-1South-50 (320-59289-17). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

Organic Prep
Method 3535: The following samples contain trizma: BH20200306PRE-GAC (320-59289-1), BH20200306POST-GACDUP (320-59289-2), BH20200306POST-GAC (320-59289-3), BH20200306POST-GAC (320-59289-3[MS]), BH20200306POST-GAC (320-59289-3[MSD]), BH20200306-1North-25 (320-59289-4), BH20200306-1North-50 (320-59289-5), BH20200306-1North-75 (320-59289-6), BH20200306-2North-25 (320-59289-7), BH20200306-2North-50 (320-59289-8), BH20200306-2North-75 (320-59289-9), BH20200306-3North-25 (320-59289-10), BH20200306-3North-50 (320-59289-11), BH20200306-3North-75 (320-59289-12), BH20200306-1Raw (320-59289-13), BH20200306-2Raw (320-59289-14), BH20200306-3Raw (320-59289-15), BH20200306-1South-25 (320-59289-16), BH20200306-1South-50 (320-59289-17), BH20200306-1South-75 (320-59289-18), BH20200306-2South-25 (320-59289-19) and BH20200306-2South-50 (320-59289-20). Thus, the MB, and LCS also contain trizma.

Method 3535: The following samples contain trizma: BH20200306-2South-75 (320-59289-21), BH20200306-3South-25 (320-59289-22), BH20200306-3South-50 (320-59289-23) and BH20200306-3South-75 (320-59289-24). Thus, the MB, and LCS also contain trizma.

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-363231.

Method 3535: The following samples contain a thin layer of sediments prior to extraction: BH20200306-3South-50 (320-59289-23) and BH20200306-3South-75 (320-59289-24).

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-59289-1

Client Sample ID: BH20200306PRE-GAC — Lab Sample ID: 320-59289-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.7		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.7		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.3		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306POST-GACDUP — Lab Sample ID: 320-59289-2

No Detections.

Client Sample ID: BH20200306POST-GAC — Lab Sample ID: 320-59289-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.9		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-1North-25 — Lab Sample ID: 320-59289-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.1		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-1North-50 — Lab Sample ID: 320-59289-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.4		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.0		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-1North-75 — Lab Sample ID: 320-59289-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.1		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.2		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-2North-25 — Lab Sample ID: 320-59289-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.1		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.0		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.9		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.7		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.7		1.7		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-2North-50 — Lab Sample ID: 320-59289-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.0		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.9		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.7		1.7		ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-59289-1

Client Sample ID: BH20200306-2North-75 — Lab Sample ID: 320-59289-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.5		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.3		1.7		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-3North-25 — Lab Sample ID: 320-59289-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.1		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.8		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-3North-50 — Lab Sample ID: 320-59289-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.8		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.6		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-3North-75 — Lab Sample ID: 320-59289-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.5		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.8		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-1Raw — Lab Sample ID: 320-59289-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.5		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.7		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.1		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.6		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-2Raw — Lab Sample ID: 320-59289-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.1		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.5		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-3Raw — Lab Sample ID: 320-59289-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.8		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.0		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.4		1.8		ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-1South-25 — Lab Sample ID: 320-59289-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.2		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-1South-50 — Lab Sample ID: 320-59289-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.9		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-1South-75 — Lab Sample ID: 320-59289-18

No Detections.

Client Sample ID: BH20200306-2South-25 — Lab Sample ID: 320-59289-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.5		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-2South-50 — Lab Sample ID: 320-59289-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.8		1.7		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-2South-75 — Lab Sample ID: 320-59289-21

No Detections.

Client Sample ID: BH20200306-3South-25 — Lab Sample ID: 320-59289-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.9		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-3South-50 — Lab Sample ID: 320-59289-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.3		1.7		ng/L	1		537 (modified)	Total/NA

Client Sample ID: BH20200306-3South-75 — Lab Sample ID: 320-59289-24

No Detections.

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306PRE-GAC
Lab Sample ID: 320-59289-1
Date Collected: 03/06/20 09:48
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.6**		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluoropentanoic acid (PFPeA)	**2.7**		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorohexanoic acid (PFHxA)	**2.2**		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorooctanoic acid (PFOA)	**2.5**		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorobutanesulfonic acid (PFBS)	**2.3**		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorohexanesulfonic acid (PFHxS)	**2.7**		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorooctanesulfonic acid (PFOS)	**3.3**		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 19:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 19:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 19:29	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 19:29	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 19:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*62*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C5 PFPeA	*77*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C2 PFHxA	*85*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C4 PFHpA	*87*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C4 PFOA	*86*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C5 PFNA	*83*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C2 PFDA	*82*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C2 PFUnA	*81*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C2 PFDoA	*88*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C2 PFTeDA	*94*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C3 PFBS	*83*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
18O2 PFHxS	*83*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C4 PFOS	*85*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
13C8 FOSA	*82*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
d3-NMeFOSAA	*69*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
d5-NEtFOSAA	*79*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
M2-6:2 FTS	*107*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*
M2-8:2 FTS	*112*		*25 - 150*	*03/10/20 05:36*	*03/10/20 19:29*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306POST-GACDUP
Lab Sample ID: 320-59289-2
Date Collected: 03/06/20 09:35
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluoropentanoic acid (PFPeA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		03/10/20 05:36	03/12/20 22:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		03/10/20 05:36	03/12/20 22:09	1
6:2 FTS	ND		17		ng/L		03/10/20 05:36	03/12/20 22:09	1
8:2 FTS	ND		17		ng/L		03/10/20 05:36	03/12/20 22:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C5 PFPeA	*95*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C2 PFHxA	*94*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C4 PFHpA	*99*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C4 PFOA	*97*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C5 PFNA	*98*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C2 PFDA	*101*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C2 PFUnA	*100*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C2 PFDoA	*102*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C2 PFTeDA	*112*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C3 PFBS	*99*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
18O2 PFHxS	*90*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C4 PFOS	*92*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
13C8 FOSA	*91*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
d3-NMeFOSAA	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
d5-NEtFOSAA	*87*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
M2-6:2 FTS	*110*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*
M2-8:2 FTS	*123*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:09*	*1*

Client Sample Results

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-59289-1

Client Sample ID: BH20200306POST-GAC

Date Collected: 03/06/20 09:41
Date Received: 03/07/20 09:25

Lab Sample ID: 320-59289-3

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1.9**		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/12/20 22:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/12/20 22:18	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/12/20 22:18	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/12/20 22:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C5 PFPeA	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C2 PFHxA	*86*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C4 PFHpA	*86*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C4 PFOA	*88*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C5 PFNA	*88*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C2 PFDA	*79*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C2 PFUnA	*91*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C2 PFDoA	*89*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C2 PFTeDA	*87*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C3 PFBS	*87*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
18O2 PFHxS	*79*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C4 PFOS	*82*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
13C8 FOSA	*78*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
d3-NMeFOSAA	*72*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
d5-NEtFOSAA	*76*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
M2-6:2 FTS	*102*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*
M2-8:2 FTS	*108*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:18*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-1North-25
Lab Sample ID: 320-59289-4
Date Collected: 03/06/20 10:02
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.6**		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluoropentanoic acid (PFPeA)	**3.3**		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorohexanoic acid (PFHxA)	**2.1**		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/12/20 22:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/12/20 22:28	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/12/20 22:28	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/12/20 22:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C5 PFPeA	*77*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C2 PFHxA	*84*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C4 PFHpA	*86*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C4 PFOA	*90*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C5 PFNA	*89*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C2 PFDA	*89*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C2 PFUnA	*94*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C2 PFDoA	*88*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C2 PFTeDA	*90*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C3 PFBS	*78*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
18O2 PFHxS	*80*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C4 PFOS	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
13C8 FOSA	*82*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
d3-NMeFOSAA	*75*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
d5-NEtFOSAA	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
M2-6:2 FTS	*131*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*
M2-8:2 FTS	*118*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:28*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-1North-50
Lab Sample ID: 320-59289-5
Date Collected: 03/06/20 10:04
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.4**		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluoropentanoic acid (PFPeA)	**3.0**		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 22:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/12/20 22:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/12/20 22:37	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/12/20 22:37	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/12/20 22:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*79*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C5 PFPeA	*83*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C2 PFHxA	*90*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C4 PFHpA	*86*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C4 PFOA	*91*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C5 PFNA	*96*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C2 PFDA	*96*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C2 PFUnA	*94*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C2 PFDoA	*96*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C2 PFTeDA	*83*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C3 PFBS	*90*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
18O2 PFHxS	*83*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C4 PFOS	*85*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
13C8 FOSA	*85*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
d3-NMeFOSAA	*73*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
d5-NEtFOSAA	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
M2-6:2 FTS	*109*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*
M2-8:2 FTS	*116*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:37*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-1North-75
Lab Sample ID: 320-59289-6
Date Collected: 03/06/20 10:06
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.1**		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluoropentanoic acid (PFPeA)	**2.2**		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 20:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 20:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 20:32	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 20:32	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 20:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*79*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C5 PFPeA	*79*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C2 PFHxA	*85*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C4 PFHpA	*84*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C4 PFOA	*85*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C5 PFNA	*89*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C2 PFDA	*93*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C2 PFUnA	*98*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C2 PFDoA	*82*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C2 PFTeDA	*82*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C3 PFBS	*87*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
18O2 PFHxS	*81*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C4 PFOS	*83*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
13C8 FOSA	*81*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
d3-NMeFOSAA	*69*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
d5-NEtFOSAA	*75*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
M2-6:2 FTS	*99*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*
M2-8:2 FTS	*107*		*25 - 150*	*03/10/20 05:36*	*03/10/20 20:32*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-2North-25
Lab Sample ID: 320-59289-7
Date Collected: 03/06/20 10:32
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.1**		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluoropentanoic acid (PFPeA)	**3.0**		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorohexanoic acid (PFHxA)	**2.0**		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorooctanoic acid (PFOA)	**1.9**		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorohexanesulfonic acid (PFHxS)	**1.7**		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorooctanesulfonic acid (PFOS)	**1.7**		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		03/10/20 05:36	03/12/20 22:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		03/10/20 05:36	03/12/20 22:46	1
6:2 FTS	ND		17		ng/L		03/10/20 05:36	03/12/20 22:46	1
8:2 FTS	ND		17		ng/L		03/10/20 05:36	03/12/20 22:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*64*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C5 PFPeA	*76*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C2 PFHxA	*87*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C4 PFHpA	*82*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C4 PFOA	*85*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C5 PFNA	*85*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C2 PFDA	*87*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C2 PFUnA	*82*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C2 PFDoA	*92*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C2 PFTeDA	*93*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C3 PFBS	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
18O2 PFHxS	*76*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C4 PFOS	*79*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
13C8 FOSA	*80*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
d3-NMeFOSAA	*83*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
d5-NEtFOSAA	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
M2-6:2 FTS	*110*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*
M2-8:2 FTS	*109*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:46*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-2North-50
Lab Sample ID: 320-59289-8
Date Collected: 03/06/20 10:33
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.0**		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluoropentanoic acid (PFPeA)	**2.9**		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorohexanoic acid (PFHxA)	**1.7**		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 22:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		03/10/20 05:36	03/12/20 22:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		03/10/20 05:36	03/12/20 22:55	1
6:2 FTS	ND		17		ng/L		03/10/20 05:36	03/12/20 22:55	1
8:2 FTS	ND		17		ng/L		03/10/20 05:36	03/12/20 22:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*79*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C5 PFPeA	*86*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C2 PFHxA	*89*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C4 PFHpA	*93*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C4 PFOA	*89*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C5 PFNA	*91*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C2 PFDA	*97*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C2 PFUnA	*89*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C2 PFDoA	*91*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C2 PFTeDA	*91*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C3 PFBS	*85*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
18O2 PFHxS	*85*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C4 PFOS	*87*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
13C8 FOSA	*89*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
d3-NMeFOSAA	*78*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
d5-NEtFOSAA	*84*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
M2-6:2 FTS	*116*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*
M2-8:2 FTS	*119*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:55*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-2North-75
Lab Sample ID: 320-59289-9
Date Collected: 03/06/20 10:36
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.5**		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluoropentanoic acid (PFPeA)	**2.3**		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		03/10/20 05:36	03/12/20 23:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		03/10/20 05:36	03/12/20 23:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		03/10/20 05:36	03/12/20 23:04	1
6:2 FTS	ND		17		ng/L		03/10/20 05:36	03/12/20 23:04	1
8:2 FTS	ND		17		ng/L		03/10/20 05:36	03/12/20 23:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C5 PFPeA	*80*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C2 PFHxA	*88*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C4 PFHpA	*90*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C4 PFOA	*88*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C5 PFNA	*83*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C2 PFDA	*95*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C2 PFUnA	*96*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C2 PFDoA	*102*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C2 PFTeDA	*96*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C3 PFBS	*83*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
18O2 PFHxS	*79*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C4 PFOS	*84*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
13C8 FOSA	*82*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
d3-NMeFOSAA	*76*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
d5-NEtFOSAA	*82*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
M2-6:2 FTS	*116*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*
M2-8:2 FTS	*120*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:04*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-3North-25
Lab Sample ID: 320-59289-10
Date Collected: 03/06/20 11:02
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.1**		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluoropentanoic acid (PFPeA)	**2.8**		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorohexanoic acid (PFHxA)	**1.9**		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 21:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 21:27	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 21:27	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 21:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*66*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C5 PFPeA	*77*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C2 PFHxA	*83*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C4 PFHpA	*84*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C4 PFOA	*87*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C5 PFNA	*87*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C2 PFDA	*88*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C2 PFUnA	*89*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C2 PFDoA	*92*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C2 PFTeDA	*84*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C3 PFBS	*83*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
18O2 PFHxS	*87*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C4 PFOS	*86*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
13C8 FOSA	*80*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
d3-NMeFOSAA	*73*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
d5-NEtFOSAA	*80*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
M2-6:2 FTS	*111*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*
M2-8:2 FTS	*111*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:27*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-3North-50
Lab Sample ID: 320-59289-11
Date Collected: 03/06/20 11:06
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.8**		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluoropentanoic acid (PFPeA)	**2.6**		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/14/20 06:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/14/20 06:10	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/14/20 06:10	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/14/20 06:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C5 PFPeA	*96*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C2 PFHxA	*101*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C4 PFHpA	*107*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C4 PFOA	*107*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C5 PFNA	*106*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C2 PFDA	*102*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C2 PFUnA	*117*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C2 PFDoA	*106*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C2 PFTeDA	*115*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C3 PFBS	*105*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
18O2 PFHxS	*108*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C4 PFOS	*117*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
13C8 FOSA	*114*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
d3-NMeFOSAA	*97*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
d5-NEtFOSAA	*101*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
M2-6:2 FTS	*116*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*
M2-8:2 FTS	*128*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:10*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-3North-75
Lab Sample ID: 320-59289-12
Date Collected: 03/06/20 11:08
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.5**		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluoropentanoic acid (PFPeA)	**1.8**		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/14/20 06:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/14/20 06:20	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/14/20 06:20	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/14/20 06:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C5 PFPeA	*92*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C2 PFHxA	*102*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C4 PFHpA	*103*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C4 PFOA	*105*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C5 PFNA	*92*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C2 PFDA	*101*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C2 PFUnA	*105*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C2 PFDoA	*108*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C2 PFTeDA	*101*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C3 PFBS	*104*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
18O2 PFHxS	*106*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C4 PFOS	*109*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
13C8 FOSA	*109*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
d3-NMeFOSAA	*98*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
d5-NEtFOSAA	*103*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
M2-6:2 FTS	*109*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*
M2-8:2 FTS	*109*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:20*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-1Raw
Lab Sample ID: 320-59289-13
Date Collected: 03/06/20 11:40
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.5**		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluoropentanoic acid (PFPeA)	**2.7**		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorohexanoic acid (PFHxA)	**2.3**		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorooctanoic acid (PFOA)	**2.5**		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorobutanesulfonic acid (PFBS)	**2.1**		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorohexanesulfonic acid (PFHxS)	**2.6**		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorooctanesulfonic acid (PFOS)	**3.6**		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 21:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 21:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 21:55	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 21:55	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 21:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C5 PFPeA	*84*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C2 PFHxA	*90*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C4 PFHpA	*95*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C4 PFOA	*94*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C5 PFNA	*93*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C2 PFDA	*97*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C2 PFUnA	*96*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C2 PFDoA	*91*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C2 PFTeDA	*86*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C3 PFBS	*91*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
18O2 PFHxS	*92*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C4 PFOS	*94*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
13C8 FOSA	*90*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
d3-NMeFOSAA	*79*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
d5-NEtFOSAA	*87*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
M2-6:2 FTS	*128*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*
M2-8:2 FTS	*134*		*25 - 150*	*03/10/20 05:36*	*03/10/20 21:55*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-2Raw
Lab Sample ID: 320-59289-14
Date Collected: 03/06/20 11:52
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.2**		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluoropentanoic acid (PFPeA)	**6.1**		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorohexanoic acid (PFHxA)	**3.5**		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluoroheptanoic acid (PFHpA)	**2.2**		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorooctanoic acid (PFOA)	**2.9**		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorohexanesulfonic acid (PFHxS)	**3.3**		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorooctanesulfonic acid (PFOS)	**2.8**		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 22:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 22:04	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 22:04	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 22:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*61*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C5 PFPeA	*80*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C2 PFHxA	*88*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C4 PFHpA	*90*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C4 PFOA	*92*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C5 PFNA	*88*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C2 PFDA	*90*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C2 PFUnA	*91*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C2 PFDoA	*90*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C2 PFTeDA	*99*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C3 PFBS	*89*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
18O2 PFHxS	*88*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C4 PFOS	*86*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
13C8 FOSA	*84*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
d3-NMeFOSAA	*74*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
d5-NEtFOSAA	*78*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
M2-6:2 FTS	*119*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*
M2-8:2 FTS	*114*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:04*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-3Raw
Lab Sample ID: 320-59289-15
Date Collected: 03/06/20 12:05
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.8**		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluoropentanoic acid (PFPeA)	**4.6**		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorohexanoic acid (PFHxA)	**3.0**		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluoroheptanoic acid (PFHpA)	**1.8**		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorooctanoic acid (PFOA)	**2.9**		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorohexanesulfonic acid (PFHxS)	**3.3**		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorooctanesulfonic acid (PFOS)	**5.4**		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 22:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 22:13	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 22:13	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 22:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*67*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C5 PFPeA	*86*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C2 PFHxA	*96*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C4 PFHpA	*102*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C4 PFOA	*89*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C5 PFNA	*100*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C2 PFDA	*86*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C2 PFUnA	*102*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C2 PFDoA	*102*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C2 PFTeDA	*85*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C3 PFBS	*93*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
18O2 PFHxS	*95*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C4 PFOS	*97*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
13C8 FOSA	*90*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
d3-NMeFOSAA	*76*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
d5-NEtFOSAA	*83*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
M2-6:2 FTS	*130*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*
M2-8:2 FTS	*129*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:13*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-1South-25
Lab Sample ID: 320-59289-16
Date Collected: 03/06/20 10:10
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.2**		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/10/20 22:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 22:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/10/20 22:40	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 22:40	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/10/20 22:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*77*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C5 PFPeA	*76*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C2 PFHxA	*82*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C4 PFHpA	*78*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C4 PFOA	*84*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C5 PFNA	*76*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C2 PFDA	*81*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C2 PFUnA	*84*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C2 PFDoA	*78*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C2 PFTeDA	*71*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C3 PFBS	*81*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
18O2 PFHxS	*79*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C4 PFOS	*80*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
13C8 FOSA	*76*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
d3-NMeFOSAA	*71*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
d5-NEtFOSAA	*75*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
M2-6:2 FTS	*107*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*
M2-8:2 FTS	*107*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:40*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-1South-50
Lab Sample ID: 320-59289-17
Date Collected: 03/06/20 10:12
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.9**		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/12/20 23:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/12/20 23:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/12/20 23:13	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/12/20 23:13	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/12/20 23:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*79*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C5 PFPeA	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C2 PFHxA	*87*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C4 PFHpA	*91*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C4 PFOA	*94*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C5 PFNA	*92*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C2 PFDA	*94*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C2 PFUnA	*94*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C2 PFDoA	*93*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C2 PFTeDA	*92*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C3 PFBS	*82*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
18O2 PFHxS	*81*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C4 PFOS	*82*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
13C8 FOSA	*84*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
d3-NMeFOSAA	*78*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
d5-NEtFOSAA	*85*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
M2-6:2 FTS	*188*	**5*	*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*
M2-8:2 FTS	*134*		*25 - 150*	*03/10/20 05:36*	*03/12/20 23:13*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-1South-75
Lab Sample ID: 320-59289-18
Date Collected: 03/06/20 10:14
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluoropentanoic acid (PFPeA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 22:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		03/10/20 05:36	03/10/20 22:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		03/10/20 05:36	03/10/20 22:58	1
6:2 FTS	ND		17		ng/L		03/10/20 05:36	03/10/20 22:58	1
8:2 FTS	ND		17		ng/L		03/10/20 05:36	03/10/20 22:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C5 PFPeA	*87*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C2 PFHxA	*93*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C4 PFHpA	*98*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C4 PFOA	*97*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C5 PFNA	*97*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C2 PFDA	*109*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C2 PFUnA	*102*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C2 PFDoA	*106*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C2 PFTeDA	*101*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C3 PFBS	*96*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
18O2 PFHxS	*95*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C4 PFOS	*97*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
13C8 FOSA	*94*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
d3-NMeFOSAA	*85*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
d5-NEtFOSAA	*93*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
M2-6:2 FTS	*125*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*
M2-8:2 FTS	*144*		*25 - 150*	*03/10/20 05:36*	*03/10/20 22:58*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-2South-25
Lab Sample ID: 320-59289-19
Date Collected: 03/06/20 10:46
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.5**		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:36	03/14/20 06:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:36	03/14/20 06:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:36	03/14/20 06:29	1
6:2 FTS	ND		18		ng/L		03/10/20 05:36	03/14/20 06:29	1
8:2 FTS	ND		18		ng/L		03/10/20 05:36	03/14/20 06:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C5 PFPeA	*93*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C2 PFHxA	*98*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C4 PFHpA	*104*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C4 PFOA	*98*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C5 PFNA	*100*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C2 PFDA	*97*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C2 PFUnA	*96*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C2 PFDoA	*96*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C2 PFTeDA	*113*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C3 PFBS	*104*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
18O2 PFHxS	*109*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C4 PFOS	*106*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
13C8 FOSA	*103*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
d3-NMeFOSAA	*88*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
d5-NEtFOSAA	*97*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
M2-6:2 FTS	*115*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*
M2-8:2 FTS	*106*		*25 - 150*	*03/10/20 05:36*	*03/14/20 06:29*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-2South-50
Lab Sample ID: 320-59289-20
Date Collected: 03/06/20 10:48
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.8**		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluoropentanoic acid (PFPeA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		03/10/20 05:36	03/10/20 23:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		03/10/20 05:36	03/10/20 23:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		03/10/20 05:36	03/10/20 23:17	1
6:2 FTS	ND		17		ng/L		03/10/20 05:36	03/10/20 23:17	1
8:2 FTS	ND		17		ng/L		03/10/20 05:36	03/10/20 23:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*65*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C5 PFPeA	*66*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C2 PFHxA	*69*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C4 PFHpA	*70*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C4 PFOA	*66*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C5 PFNA	*74*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C2 PFDA	*70*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C2 PFUnA	*66*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C2 PFDoA	*77*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C2 PFTeDA	*74*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C3 PFBS	*71*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
18O2 PFHxS	*71*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C4 PFOS	*74*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
13C8 FOSA	*75*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
d3-NMeFOSAA	*68*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
d5-NEtFOSAA	*65*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
M2-6:2 FTS	*88*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*
M2-8:2 FTS	*112*		*25 - 150*	*03/10/20 05:36*	*03/10/20 23:17*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-2South-75
Lab Sample ID: 320-59289-21
Date Collected: 03/06/20 10:50
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 09:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:45	03/11/20 09:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:45	03/11/20 09:54	1
6:2 FTS	ND		18		ng/L		03/10/20 05:45	03/11/20 09:54	1
8:2 FTS	ND		18		ng/L		03/10/20 05:45	03/11/20 09:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C5 PFPeA	*90*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C2 PFHxA	*94*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C4 PFHpA	*88*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C4 PFOA	*91*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C5 PFNA	*83*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C2 PFDA	*85*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C2 PFUnA	*90*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C2 PFDoA	*77*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C2 PFTeDA	*77*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C3 PFBS	*98*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
18O2 PFHxS	*101*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C4 PFOS	*102*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
13C8 FOSA	*95*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
d3-NMeFOSAA	*72*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
d5-NEtFOSAA	*81*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
M2-6:2 FTS	*92*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*
M2-8:2 FTS	*100*		*25 - 150*	*03/10/20 05:45*	*03/11/20 09:54*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-3South-25
Lab Sample ID: 320-59289-22
Date Collected: 03/06/20 11:16
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.9**		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:45	03/11/20 10:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:45	03/11/20 10:04	1
6:2 FTS	ND		18		ng/L		03/10/20 05:45	03/11/20 10:04	1
8:2 FTS	ND		18		ng/L		03/10/20 05:45	03/11/20 10:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C5 PFPeA	*86*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C2 PFHxA	*89*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C4 PFHpA	*87*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C4 PFOA	*83*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C5 PFNA	*82*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C2 PFDA	*79*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C2 PFUnA	*81*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C2 PFDoA	*70*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C2 PFTeDA	*69*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C3 PFBS	*96*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
18O2 PFHxS	*93*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C4 PFOS	*96*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
13C8 FOSA	*88*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
d3-NMeFOSAA	*77*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
d5-NEtFOSAA	*75*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
M2-6:2 FTS	*91*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:04*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-3South-50
Lab Sample ID: 320-59289-23
Date Collected: 03/06/20 11:18
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.3**		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluoropentanoic acid (PFPeA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		03/10/20 05:45	03/11/20 10:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		03/10/20 05:45	03/11/20 10:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		03/10/20 05:45	03/11/20 10:13	1
6:2 FTS	ND		17		ng/L		03/10/20 05:45	03/11/20 10:13	1
8:2 FTS	ND		17		ng/L		03/10/20 05:45	03/11/20 10:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*101*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C5 PFPeA	*97*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C2 PFHxA	*100*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C4 PFHpA	*93*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C4 PFOA	*90*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C5 PFNA	*94*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C2 PFDA	*88*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C2 PFUnA	*90*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C2 PFDoA	*73*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C2 PFTeDA	*81*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C3 PFBS	*97*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
18O2 PFHxS	*100*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C4 PFOS	*101*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
13C8 FOSA	*101*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
d3-NMeFOSAA	*75*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
d5-NEtFOSAA	*84*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
M2-6:2 FTS	*98*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*
M2-8:2 FTS	*109*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:13*	*1*

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-3South-75
Lab Sample ID: 320-59289-24
Date Collected: 03/06/20 11:20
Matrix: Water
Date Received: 03/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		03/10/20 05:45	03/11/20 10:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		03/10/20 05:45	03/11/20 10:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		03/10/20 05:45	03/11/20 10:22	1
6:2 FTS	ND		18		ng/L		03/10/20 05:45	03/11/20 10:22	1
8:2 FTS	ND		18		ng/L		03/10/20 05:45	03/11/20 10:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*108*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C5 PFPeA	*98*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C2 PFHxA	*102*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C4 PFHpA	*98*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C4 PFOA	*98*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C5 PFNA	*98*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C2 PFDA	*93*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C2 PFUnA	*99*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C2 PFDoA	*72*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C2 PFTeDA	*90*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C3 PFBS	*103*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
18O2 PFHxS	*106*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C4 PFOS	*106*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
13C8 FOSA	*106*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
d3-NMeFOSAA	*86*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
d5-NEtFOSAA	*90*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
M2-6:2 FTS	*106*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*
M2-8:2 FTS	*117*		*25 - 150*	*03/10/20 05:45*	*03/11/20 10:22*	*1*

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	PFHpA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-59289-1	BH20200306PRE-GAC	62	77	85	87	86	83	82	81
320-59289-2	BH20200306POST-GACDUP	94	95	94	99	97	98	101	100
320-59289-3	BH20200306POST-GAC	81	81	86	86	88	88	79	91
320-59289-3 MS	BH20200306POST-GAC	78	79	87	84	87	87	93	88
320-59289-3 MSD	BH20200306POST-GAC	85	88	93	95	92	94	87	104
320-59289-4	BH20200306-1North-25	68	77	84	86	90	89	89	94
320-59289-5	BH20200306-1North-50	79	83	90	86	91	96	96	94
320-59289-6	BH20200306-1North-75	79	79	85	84	85	89	93	98
320-59289-7	BH20200306-2North-25	64	76	87	82	85	85	87	82
320-59289-8	BH20200306-2North-50	79	86	89	93	89	91	97	89
320-59289-9	BH20200306-2North-75	81	80	88	90	88	83	95	96
320-59289-10	BH20200306-3North-25	66	77	83	84	87	87	88	89
320-59289-11	BH20200306-3North-50	89	96	101	107	107	106	102	117
320-59289-12	BH20200306-3North-75	93	92	102	103	105	92	101	105
320-59289-13	BH20200306-1Raw	68	84	90	95	94	93	97	96
320-59289-14	BH20200306-2Raw	61	80	88	90	92	88	90	91
320-59289-15	BH20200306-3Raw	67	86	96	102	89	100	86	102
320-59289-16	BH20200306-1South-25	77	76	82	78	84	76	81	84
320-59289-17	BH20200306-1South-50	79	81	87	91	94	92	94	94
320-59289-18	BH20200306-1South-75	90	87	93	98	97	97	109	102
320-59289-19	BH20200306-2South-25	90	93	98	104	98	100	97	96
320-59289-20	BH20200306-2South-50	65	66	69	70	66	74	70	66
320-59289-21	BH20200306-2South-75	95	90	94	88	91	83	85	90
320-59289-22	BH20200306-3South-25	92	86	89	87	83	82	79	81
320-59289-23	BH20200306-3South-50	101	97	100	93	90	94	88	90
320-59289-24	BH20200306-3South-75	108	98	102	98	98	98	93	99
LCS 320-363230/2-A	Lab Control Sample	82	85	87	87	87	90	91	89
LCS 320-363231/2-A	Lab Control Sample	96	86	93	88	89	84	82	91
LCSD 320-363231/3-A	Lab Control Sample Dup	85	80	80	80	79	77	73	74
MB 320-363230/1-A	Method Blank	87	88	95	96	95	94	91	102
MB 320-363231/1-A	Method Blank	94	95	94	91	89	88	85	91

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	3C3-PFB (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	-NMeFOS (25-150)	-NEtFOS (25-150)
320-59289-1	BH20200306PRE-GAC	88	94	83	83	85	82	69	79
320-59289-2	BH20200306POST-GACDUP	102	112	99	90	92	91	81	87
320-59289-3	BH20200306POST-GAC	89	87	87	79	82	78	72	76
320-59289-3 MS	BH20200306POST-GAC	78	87	82	79	81	80	74	76
320-59289-3 MSD	BH20200306POST-GAC	94	81	92	89	86	88	80	81
320-59289-4	BH20200306-1North-25	88	90	78	80	81	82	75	81
320-59289-5	BH20200306-1North-50	96	83	90	83	85	85	73	81
320-59289-6	BH20200306-1North-75	82	82	87	81	83	81	69	75
320-59289-7	BH20200306-2North-25	92	93	81	76	79	80	83	81
320-59289-8	BH20200306-2North-50	91	91	85	85	87	89	78	84
320-59289-9	BH20200306-2North-75	102	96	83	79	84	82	76	82
320-59289-10	BH20200306-3North-25	92	84	83	87	86	80	73	80
320-59289-11	BH20200306-3North-50	106	115	105	108	117	114	97	101
320-59289-12	BH20200306-3North-75	108	101	104	106	109	109	98	103
320-59289-13	BH20200306-1Raw	91	86	91	92	94	90	79	87

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

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

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	3C3-PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	-NMeFOSA (25-150)	-NEtFOSA (25-150)
320-59289-14	BH20200306-2Raw	90	99	89	88	86	84	74	78
320-59289-15	BH20200306-3Raw	102	85	93	95	97	90	76	83
320-59289-16	BH20200306-1South-25	78	71	81	79	80	76	71	75
320-59289-17	BH20200306-1South-50	93	92	82	81	82	84	78	85
320-59289-18	BH20200306-1South-75	106	101	96	95	97	94	85	93
320-59289-19	BH20200306-2South-25	96	113	104	109	106	103	88	97
320-59289-20	BH20200306-2South-50	77	74	71	71	74	75	68	65
320-59289-21	BH20200306-2South-75	77	77	98	101	102	95	72	81
320-59289-22	BH20200306-3South-25	70	69	96	93	96	88	77	75
320-59289-23	BH20200306-3South-50	73	81	97	100	101	101	75	84
320-59289-24	BH20200306-3South-75	72	90	103	106	106	106	86	90
LCS 320-363230/2-A	Lab Control Sample	103	98	88	87	87	88	78	83
LCS 320-363231/2-A	Lab Control Sample	81	80	97	96	94	90	75	83
LCSD 320-363231/3-A	Lab Control Sample Dup	64	63	89	87	87	84	67	72
MB 320-363230/1-A	Method Blank	100	99	93	90	93	93	80	87
MB 320-363231/1-A	Method Blank	80	76	95	96	99	96	82	79

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
320-59289-1	BH20200306PRE-GAC	107	112						
320-59289-2	BH20200306POST-GACDUP	110	123						
320-59289-3	BH20200306POST-GAC	102	108						
320-59289-3 MS	BH20200306POST-GAC	97	104						
320-59289-3 MSD	BH20200306POST-GAC	109	115						
320-59289-4	BH20200306-1North-25	131	118						
320-59289-5	BH20200306-1North-50	109	116						
320-59289-6	BH20200306-1North-75	99	107						
320-59289-7	BH20200306-2North-25	110	109						
320-59289-8	BH20200306-2North-50	116	119						
320-59289-9	BH20200306-2North-75	116	120						
320-59289-10	BH20200306-3North-25	111	111						
320-59289-11	BH20200306-3North-50	116	128						
320-59289-12	BH20200306-3North-75	109	109						
320-59289-13	BH20200306-1Raw	128	134						
320-59289-14	BH20200306-2Raw	119	114						
320-59289-15	BH20200306-3Raw	130	129						
320-59289-16	BH20200306-1South-25	107	107						
320-59289-17	BH20200306-1South-50	188 *5	134						
320-59289-18	BH20200306-1South-75	125	144						
320-59289-19	BH20200306-2South-25	115	106						
320-59289-20	BH20200306-2South-50	88	112						
320-59289-21	BH20200306-2South-75	92	100						
320-59289-22	BH20200306-3South-25	91	95						
320-59289-23	BH20200306-3South-50	98	109						
320-59289-24	BH20200306-3South-75	106	117						
LCS 320-363230/2-A	Lab Control Sample	103	114						
LCS 320-363231/2-A	Lab Control Sample	86	90						
LCSD 320-363231/3-A	Lab Control Sample Dup	79	87						
MB 320-363230/1-A	Method Blank	115	128						
MB 320-363231/1-A	Method Blank	84	98						

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
PFHpA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
13C3-PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3-NMeFOSAA = d3-NMeFOSAA
d5-NEtFOSAA = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-363230/1-A
Matrix: Water
Analysis Batch: 364181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		03/10/20 05:36	03/12/20 22:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20		ng/L		03/10/20 05:36	03/12/20 22:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20		ng/L		03/10/20 05:36	03/12/20 22:00	1
6:2 FTS	ND		20		ng/L		03/10/20 05:36	03/12/20 22:00	1
8:2 FTS	ND		20		ng/L		03/10/20 05:36	03/12/20 22:00	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*87*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C5 PFPeA	*88*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C2 PFHxA	*95*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C4 PFHpA	*96*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C4 PFOA	*95*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C5 PFNA	*94*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C2 PFDA	*91*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C2 PFUnA	*102*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C2 PFDoA	*100*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C2 PFTeDA	*99*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C3 PFBS	*93*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
18O2 PFHxS	*90*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C4 PFOS	*93*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
13C8 FOSA	*93*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
d3-NMeFOSAA	*80*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
d5-NEtFOSAA	*87*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
M2-6:2 FTS	*115*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*
M2-8:2 FTS	*128*		*25 - 150*	*03/10/20 05:36*	*03/12/20 22:00*	*1*

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

Lab Sample ID: LCS 320-363230/2-A
Matrix: Water
Analysis Batch: 363812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	39.8		ng/L		99	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	38.8		ng/L		97	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	39.3		ng/L		98	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	40.8		ng/L		102	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	37.2		ng/L		93	70 - 130
Perfluorononanoic acid (PFNA)	40.0	38.0		ng/L		95	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	38.6		ng/L		96	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	32.0		ng/L		80	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	38.3		ng/L		96	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	36.8		ng/L		92	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	33.9		ng/L		85	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	33.8		ng/L		96	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.8		ng/L		90	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.4		ng/L		101	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	35.1		ng/L		95	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	35.5		ng/L		92	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	38.2		ng/L		96	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	39.4		ng/L		99	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	36.6		ng/L		92	76 - 136
6:2 FTS	37.9	35.5		ng/L		94	59 - 175
8:2 FTS	38.3	35.2		ng/L		92	75 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*82*		*25 - 150*
13C5 PFPeA	*85*		*25 - 150*
13C2 PFHxA	*87*		*25 - 150*
13C4 PFHpA	*87*		*25 - 150*
13C4 PFOA	*87*		*25 - 150*
13C5 PFNA	*90*		*25 - 150*
13C2 PFDA	*91*		*25 - 150*
13C2 PFUnA	*89*		*25 - 150*
13C2 PFDoA	*103*		*25 - 150*
13C2 PFTeDA	*98*		*25 - 150*
13C3 PFBS	*88*		*25 - 150*
18O2 PFHxS	*87*		*25 - 150*
13C4 PFOS	*87*		*25 - 150*
13C8 FOSA	*88*		*25 - 150*
d3-NMeFOSAA	*78*		*25 - 150*
d5-NEtFOSAA	*83*		*25 - 150*

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

Lab Sample ID: LCS 320-363230/2-A
Matrix: Water
Analysis Batch: 363812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363230

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	103		25 - 150
M2-8:2 FTS	114		25 - 150

Lab Sample ID: 320-59289-3 MS
Matrix: Water
Analysis Batch: 363812

Client Sample ID: BH20200306POST-GAC
Prep Type: Total/NA
Prep Batch: 363230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	1.9		35.5	36.3		ng/L		97	76 - 136
Perfluoropentanoic acid (PFPeA)	ND		35.5	34.5		ng/L		97	71 - 131
Perfluorohexanoic acid (PFHxA)	ND		35.5	32.2		ng/L		91	73 - 133
Perfluoroheptanoic acid (PFHpA)	ND		35.5	32.3		ng/L		91	72 - 132
Perfluorooctanoic acid (PFOA)	ND		35.5	30.9		ng/L		87	70 - 130
Perfluorononanoic acid (PFNA)	ND		35.5	33.8		ng/L		95	75 - 135
Perfluorodecanoic acid (PFDA)	ND		35.5	29.0		ng/L		82	76 - 136
Perfluoroundecanoic acid (PFUnA)	ND		35.5	29.4		ng/L		83	68 - 128
Perfluorododecanoic acid (PFDoA)	ND		35.5	41.4		ng/L		117	71 - 131
Perfluorotridecanoic acid (PFTriA)	ND		35.5	43.1		ng/L		121	71 - 131
Perfluorotetradecanoic acid (PFTeA)	ND		35.5	37.5		ng/L		106	70 - 130
Perfluorobutanesulfonic acid (PFBS)	ND		31.4	29.5		ng/L		94	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	ND		32.3	29.0		ng/L		89	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	ND		33.8	34.1		ng/L		101	76 - 136
Perfluorooctanesulfonic acid (PFOS)	ND		33.0	30.1		ng/L		88	70 - 130
Perfluorodecanesulfonic acid (PFDS)	ND		34.2	30.8		ng/L		90	71 - 131
Perfluorooctanesulfonamide (FOSA)	ND		35.5	32.8		ng/L		92	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		35.5	33.6		ng/L		95	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		35.5	33.7		ng/L		95	76 - 136
6:2 FTS	ND		33.7	31.6		ng/L		94	59 - 175
8:2 FTS	ND		34.0	30.9		ng/L		91	75 - 135

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	78		25 - 150
13C5 PFPeA	79		25 - 150
13C2 PFHxA	87		25 - 150
13C4 PFHpA	84		25 - 150
13C4 PFOA	87		25 - 150
13C5 PFNA	87		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	88		25 - 150
13C2 PFDoA	78		25 - 150

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

Lab Sample ID: 320-59289-3 MS
Matrix: Water
Analysis Batch: 363812

Client Sample ID: BH20200306POST-GAC
Prep Type: Total/NA
Prep Batch: 363230

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2 PFTeDA	87		25 - 150
13C3 PFBS	82		25 - 150
18O2 PFHxS	79		25 - 150
13C4 PFOS	81		25 - 150
13C8 FOSA	80		25 - 150
d3-NMeFOSAA	74		25 - 150
d5-NEtFOSAA	76		25 - 150
M2-6:2 FTS	97		25 - 150
M2-8:2 FTS	104		25 - 150

Lab Sample ID: 320-59289-3 MSD
Matrix: Water
Analysis Batch: 363812

Client Sample ID: BH20200306POST-GAC
Prep Type: Total/NA
Prep Batch: 363230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	1.9		36.6	37.8		ng/L		98	76 - 136	4	30
Perfluoropentanoic acid (PFPeA)	ND		36.6	35.7		ng/L		98	71 - 131	3	30
Perfluorohexanoic acid (PFHxA)	ND		36.6	35.4		ng/L		97	73 - 133	9	30
Perfluoroheptanoic acid (PFHpA)	ND		36.6	35.8		ng/L		98	72 - 132	10	30
Perfluorooctanoic acid (PFOA)	ND		36.6	32.2		ng/L		88	70 - 130	4	30
Perfluorononanoic acid (PFNA)	ND		36.6	35.9		ng/L		98	75 - 135	6	30
Perfluorodecanoic acid (PFDA)	ND		36.6	34.6		ng/L		94	76 - 136	17	30
Perfluoroundecanoic acid (PFUnA)	ND		36.6	29.1		ng/L		79	68 - 128	1	30
Perfluorododecanoic acid (PFDoA)	ND		36.6	31.9		ng/L		87	71 - 131	26	30
Perfluorotridecanoic acid (PFTriA)	ND		36.6	35.7		ng/L		97	71 - 131	19	30
Perfluorotetradecanoic acid (PFTeA)	ND		36.6	36.5		ng/L		100	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	ND		32.4	30.7		ng/L		95	67 - 127	4	30
Perfluorohexanesulfonic acid (PFHxS)	ND		33.3	30.0		ng/L		89	59 - 119	3	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		34.9	37.3		ng/L		107	76 - 136	9	30
Perfluorooctanesulfonic acid (PFOS)	ND		34.0	33.0		ng/L		93	70 - 130	9	30
Perfluorodecanesulfonic acid (PFDS)	ND		35.3	32.6		ng/L		92	71 - 131	6	30
Perfluorooctanesulfonamide (FOSA)	ND		36.6	34.2		ng/L		93	73 - 133	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		36.6	35.7		ng/L		97	76 - 136	6	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		36.6	33.9		ng/L		93	76 - 136	1	30
6:2 FTS	ND		34.7	33.0		ng/L		95	59 - 175	4	30
8:2 FTS	ND		35.1	33.4		ng/L		95	75 - 135	8	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	85		25 - 150
13C5 PFPeA	88		25 - 150

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

Lab Sample ID: 320-59289-3 MSD
Matrix: Water
Analysis Batch: 363812

Client Sample ID: BH20200306POST-GAC
Prep Type: Total/NA
Prep Batch: 363230

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFHxA	93		25 - 150
13C4 PFHpA	95		25 - 150
13C4 PFOA	92		25 - 150
13C5 PFNA	94		25 - 150
13C2 PFDA	87		25 - 150
13C2 PFUnA	104		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	81		25 - 150
13C3 PFBS	92		25 - 150
18O2 PFHxS	89		25 - 150
13C4 PFOS	86		25 - 150
13C8 FOSA	88		25 - 150
d3-NMeFOSAA	80		25 - 150
d5-NEtFOSAA	81		25 - 150
M2-6:2 FTS	109		25 - 150
M2-8:2 FTS	115		25 - 150

Lab Sample ID: MB 320-363231/1-A
Matrix: Water
Analysis Batch: 363536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		03/10/20 05:45	03/11/20 09:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20		ng/L		03/10/20 05:45	03/11/20 09:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20		ng/L		03/10/20 05:45	03/11/20 09:27	1
6:2 FTS	ND		20		ng/L		03/10/20 05:45	03/11/20 09:27	1
8:2 FTS	ND		20		ng/L		03/10/20 05:45	03/11/20 09:27	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C5 PFPeA	95		25 - 150	03/10/20 05:45	03/11/20 09:27	1

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

Lab Sample ID: MB 320-363231/1-A
Matrix: Water
Analysis Batch: 363536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363231

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C4 PFHpA	91		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C4 PFOA	89		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C5 PFNA	88		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C2 PFDA	85		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C2 PFUnA	91		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C2 PFDoA	80		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C2 PFTeDA	76		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C3 PFBS	95		25 - 150	03/10/20 05:45	03/11/20 09:27	1
18O2 PFHxS	96		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C4 PFOS	99		25 - 150	03/10/20 05:45	03/11/20 09:27	1
13C8 FOSA	96		25 - 150	03/10/20 05:45	03/11/20 09:27	1
d3-NMeFOSAA	82		25 - 150	03/10/20 05:45	03/11/20 09:27	1
d5-NEtFOSAA	79		25 - 150	03/10/20 05:45	03/11/20 09:27	1
M2-6:2 FTS	84		25 - 150	03/10/20 05:45	03/11/20 09:27	1
M2-8:2 FTS	98		25 - 150	03/10/20 05:45	03/11/20 09:27	1

Lab Sample ID: LCS 320-363231/2-A
Matrix: Water
Analysis Batch: 363536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	38.7		ng/L		97	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	39.2		ng/L		98	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	36.5		ng/L		91	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	38.1		ng/L		95	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	36.3		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	40.0	38.8		ng/L		97	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	41.0		ng/L		103	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	32.6		ng/L		81	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	34.8		ng/L		87	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	44.7		ng/L		112	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	35.4		ng/L		88	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	32.4		ng/L		92	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.6		ng/L		90	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.4		ng/L		103	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	35.7		ng/L		96	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	39.1		ng/L		101	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	38.8		ng/L		97	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	48.7		ng/L		122	76 - 136

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

Lab Sample ID: LCS 320-363231/2-A
Matrix: Water
Analysis Batch: 363536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363231

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	38.6		ng/L		97	76 - 136		
6:2 FTS			37.9	34.1		ng/L		90	59 - 175		
8:2 FTS			38.3	34.8		ng/L		91	75 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*96*		*25 - 150*
13C5 PFPeA	*86*		*25 - 150*
13C2 PFHxA	*93*		*25 - 150*
13C4 PFHpA	*88*		*25 - 150*
13C4 PFOA	*89*		*25 - 150*
13C5 PFNA	*84*		*25 - 150*
13C2 PFDA	*82*		*25 - 150*
13C2 PFUnA	*91*		*25 - 150*
13C2 PFDoA	*81*		*25 - 150*
13C2 PFTeDA	*80*		*25 - 150*
13C3 PFBS	*97*		*25 - 150*
18O2 PFHxS	*96*		*25 - 150*
13C4 PFOS	*94*		*25 - 150*
13C8 FOSA	*90*		*25 - 150*
d3-NMeFOSAA	*75*		*25 - 150*
d5-NEtFOSAA	*83*		*25 - 150*
M2-6:2 FTS	*86*		*25 - 150*
M2-8:2 FTS	*90*		*25 - 150*

Lab Sample ID: LCSD 320-363231/3-A
Matrix: Water
Analysis Batch: 363536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 363231

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	41.0		ng/L		102	76 - 136	6	30
Perfluoropentanoic acid (PFPeA)			40.0	40.6		ng/L		102	71 - 131	4	30
Perfluorohexanoic acid (PFHxA)			40.0	39.4		ng/L		98	73 - 133	8	30
Perfluoroheptanoic acid (PFHpA)			40.0	37.8		ng/L		95	72 - 132	1	30
Perfluorooctanoic acid (PFOA)			40.0	35.7		ng/L		89	70 - 130	2	30
Perfluorononanoic acid (PFNA)			40.0	42.5		ng/L		106	75 - 135	9	30
Perfluorodecanoic acid (PFDA)			40.0	43.0		ng/L		108	76 - 136	5	30
Perfluoroundecanoic acid (PFUnA)			40.0	37.9		ng/L		95	68 - 128	15	30
Perfluorododecanoic acid (PFDoA)			40.0	39.3		ng/L		98	71 - 131	12	30
Perfluorotridecanoic acid (PFTriA)			40.0	39.5		ng/L		99	71 - 131	12	30
Perfluorotetradecanoic acid (PFTeA)			40.0	39.2		ng/L		98	70 - 130	10	30
Perfluorobutanesulfonic acid (PFBS)			35.4	32.2		ng/L		91	67 - 127	1	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	32.6		ng/L		90	59 - 119	0	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	36.8		ng/L		97	76 - 136	7	30

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

Lab Sample ID: LCSD 320-363231/3-A
Matrix: Water
Analysis Batch: 363536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 363231

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)			37.1	35.8		ng/L		97	70 - 130	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	34.4		ng/L		89	71 - 131	13	30
Perfluorooctanesulfonamide (FOSA)			40.0	35.8		ng/L		90	73 - 133	8	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	52.7		ng/L		132	76 - 136	8	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	41.1		ng/L		103	76 - 136	6	30
6:2 FTS			37.9	36.2		ng/L		96	59 - 175	6	30
8:2 FTS			38.3	34.2		ng/L		89	75 - 135	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*85*		*25 - 150*
13C5 PFPeA	*80*		*25 - 150*
13C2 PFHxA	*80*		*25 - 150*
13C4 PFHpA	*80*		*25 - 150*
13C4 PFOA	*79*		*25 - 150*
13C5 PFNA	*77*		*25 - 150*
13C2 PFDA	*73*		*25 - 150*
13C2 PFUnA	*74*		*25 - 150*
13C2 PFDoA	*64*		*25 - 150*
13C2 PFTeDA	*63*		*25 - 150*
13C3 PFBS	*89*		*25 - 150*
18O2 PFHxS	*87*		*25 - 150*
13C4 PFOS	*87*		*25 - 150*
13C8 FOSA	*84*		*25 - 150*
d3-NMeFOSAA	*67*		*25 - 150*
d5-NEtFOSAA	*72*		*25 - 150*
M2-6:2 FTS	*79*		*25 - 150*
M2-8:2 FTS	*87*		*25 - 150*

LCMS

Prep Batch: 363230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59289-1	BH20200306PRE-GAC	Total/NA	Water	3535	
320-59289-2	BH20200306POST-GACDUP	Total/NA	Water	3535	
320-59289-3	BH20200306POST-GAC	Total/NA	Water	3535	
320-59289-4	BH20200306-1North-25	Total/NA	Water	3535	
320-59289-5	BH20200306-1North-50	Total/NA	Water	3535	
320-59289-6	BH20200306-1North-75	Total/NA	Water	3535	
320-59289-7	BH20200306-2North-25	Total/NA	Water	3535	
320-59289-8	BH20200306-2North-50	Total/NA	Water	3535	
320-59289-9	BH20200306-2North-75	Total/NA	Water	3535	
320-59289-10	BH20200306-3North-25	Total/NA	Water	3535	
320-59289-11	BH20200306-3North-50	Total/NA	Water	3535	
320-59289-12	BH20200306-3North-75	Total/NA	Water	3535	
320-59289-13	BH20200306-1Raw	Total/NA	Water	3535	
320-59289-14	BH20200306-2Raw	Total/NA	Water	3535	
320-59289-15	BH20200306-3Raw	Total/NA	Water	3535	
320-59289-16	BH20200306-1South-25	Total/NA	Water	3535	
320-59289-17	BH20200306-1South-50	Total/NA	Water	3535	
320-59289-18	BH20200306-1South-75	Total/NA	Water	3535	
320-59289-19	BH20200306-2South-25	Total/NA	Water	3535	
320-59289-20	BH20200306-2South-50	Total/NA	Water	3535	
MB 320-363230/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-363230/2-A	Lab Control Sample	Total/NA	Water	3535	
320-59289-3 MS	BH20200306POST-GAC	Total/NA	Water	3535	
320-59289-3 MSD	BH20200306POST-GAC	Total/NA	Water	3535	

Prep Batch: 363231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59289-21	BH20200306-2South-75	Total/NA	Water	3535	
320-59289-22	BH20200306-3South-25	Total/NA	Water	3535	
320-59289-23	BH20200306-3South-50	Total/NA	Water	3535	
320-59289-24	BH20200306-3South-75	Total/NA	Water	3535	
MB 320-363231/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-363231/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-363231/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 363536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59289-21	BH20200306-2South-75	Total/NA	Water	537 (modified)	363231
320-59289-22	BH20200306-3South-25	Total/NA	Water	537 (modified)	363231
320-59289-23	BH20200306-3South-50	Total/NA	Water	537 (modified)	363231
320-59289-24	BH20200306-3South-75	Total/NA	Water	537 (modified)	363231
MB 320-363231/1-A	Method Blank	Total/NA	Water	537 (modified)	363231
LCS 320-363231/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	363231
LCSD 320-363231/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	363231

Analysis Batch: 363812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59289-1	BH20200306PRE-GAC	Total/NA	Water	537 (modified)	363230
320-59289-6	BH20200306-1North-75	Total/NA	Water	537 (modified)	363230
320-59289-10	BH20200306-3North-25	Total/NA	Water	537 (modified)	363230
320-59289-13	BH20200306-1Raw	Total/NA	Water	537 (modified)	363230

LCMS (Continued)

Analysis Batch: 363812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59289-14	BH20200306-2Raw	Total/NA	Water	537 (modified)	363230
320-59289-15	BH20200306-3Raw	Total/NA	Water	537 (modified)	363230
320-59289-16	BH20200306-1South-25	Total/NA	Water	537 (modified)	363230
320-59289-18	BH20200306-1South-75	Total/NA	Water	537 (modified)	363230
320-59289-20	BH20200306-2South-50	Total/NA	Water	537 (modified)	363230
LCS 320-363230/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	363230
320-59289-3 MS	BH20200306POST-GAC	Total/NA	Water	537 (modified)	363230
320-59289-3 MSD	BH20200306POST-GAC	Total/NA	Water	537 (modified)	363230

Analysis Batch: 364181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59289-2	BH20200306POST-GACDUP	Total/NA	Water	537 (modified)	363230
320-59289-3	BH20200306POST-GAC	Total/NA	Water	537 (modified)	363230
320-59289-4	BH20200306-1North-25	Total/NA	Water	537 (modified)	363230
320-59289-5	BH20200306-1North-50	Total/NA	Water	537 (modified)	363230
320-59289-7	BH20200306-2North-25	Total/NA	Water	537 (modified)	363230
320-59289-8	BH20200306-2North-50	Total/NA	Water	537 (modified)	363230
320-59289-9	BH20200306-2North-75	Total/NA	Water	537 (modified)	363230
320-59289-17	BH20200306-1South-50	Total/NA	Water	537 (modified)	363230
MB 320-363230/1-A	Method Blank	Total/NA	Water	537 (modified)	363230

Analysis Batch: 364683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59289-11	BH20200306-3North-50	Total/NA	Water	537 (modified)	363230
320-59289-12	BH20200306-3North-75	Total/NA	Water	537 (modified)	363230
320-59289-19	BH20200306-2South-25	Total/NA	Water	537 (modified)	363230

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-59289-1

Client Sample ID: BH20200306PRE-GAC
Lab Sample ID: 320-59289-1
Date Collected: 03/06/20 09:48
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.1 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363812	03/10/20 19:29	AP1	TAL SAC

Client Sample ID: BH20200306POST-GACDUP
Lab Sample ID: 320-59289-2
Date Collected: 03/06/20 09:35
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			293.7 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364181	03/12/20 22:09	AP1	TAL SAC

Client Sample ID: BH20200306POST-GAC
Lab Sample ID: 320-59289-3
Date Collected: 03/06/20 09:41
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			282.5 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364181	03/12/20 22:18	AP1	TAL SAC

Client Sample ID: BH20200306-1North-25
Lab Sample ID: 320-59289-4
Date Collected: 03/06/20 10:02
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			278.8 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364181	03/12/20 22:28	AP1	TAL SAC

Client Sample ID: BH20200306-1North-50
Lab Sample ID: 320-59289-5
Date Collected: 03/06/20 10:04
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.4 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364181	03/12/20 22:37	AP1	TAL SAC

Client Sample ID: BH20200306-1North-75
Lab Sample ID: 320-59289-6
Date Collected: 03/06/20 10:06
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			282.8 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363812	03/10/20 20:32	AP1	TAL SAC

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-59289-1

Client Sample ID: BH20200306-2North-25
Lab Sample ID: 320-59289-7
Date Collected: 03/06/20 10:32
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			293.4 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364181	03/12/20 22:46	AP1	TAL SAC

Client Sample ID: BH20200306-2North-50
Lab Sample ID: 320-59289-8
Date Collected: 03/06/20 10:33
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			286.2 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364181	03/12/20 22:55	AP1	TAL SAC

Client Sample ID: BH20200306-2North-75
Lab Sample ID: 320-59289-9
Date Collected: 03/06/20 10:36
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			289.2 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364181	03/12/20 23:04	AP1	TAL SAC

Client Sample ID: BH20200306-3North-25
Lab Sample ID: 320-59289-10
Date Collected: 03/06/20 11:02
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			285.6 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363812	03/10/20 21:27	AP1	TAL SAC

Client Sample ID: BH20200306-3North-50
Lab Sample ID: 320-59289-11
Date Collected: 03/06/20 11:06
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			282.6 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364683	03/14/20 06:10	S1M	TAL SAC

Client Sample ID: BH20200306-3North-75
Lab Sample ID: 320-59289-12
Date Collected: 03/06/20 11:08
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.8 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364683	03/14/20 06:20	S1M	TAL SAC

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-59289-1

Client Sample ID: BH20200306-1Raw
Lab Sample ID: 320-59289-13
Date Collected: 03/06/20 11:40
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			282 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363812	03/10/20 21:55	AP1	TAL SAC

Client Sample ID: BH20200306-2Raw
Lab Sample ID: 320-59289-14
Date Collected: 03/06/20 11:52
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.5 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363812	03/10/20 22:04	AP1	TAL SAC

Client Sample ID: BH20200306-3Raw
Lab Sample ID: 320-59289-15
Date Collected: 03/06/20 12:05
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			275.9 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363812	03/10/20 22:13	AP1	TAL SAC

Client Sample ID: BH20200306-1South-25
Lab Sample ID: 320-59289-16
Date Collected: 03/06/20 10:10
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			284.8 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363812	03/10/20 22:40	AP1	TAL SAC

Client Sample ID: BH20200306-1South-50
Lab Sample ID: 320-59289-17
Date Collected: 03/06/20 10:12
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283.7 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364181	03/12/20 23:13	AP1	TAL SAC

Client Sample ID: BH20200306-1South-75
Lab Sample ID: 320-59289-18
Date Collected: 03/06/20 10:14
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			288.2 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363812	03/10/20 22:58	AP1	TAL SAC

Lab Chronicle

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20200306-2South-25
Lab Sample ID: 320-59289-19
Date Collected: 03/06/20 10:46
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			276.1 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			364683	03/14/20 06:29	S1M	TAL SAC

Client Sample ID: BH20200306-2South-50
Lab Sample ID: 320-59289-20
Date Collected: 03/06/20 10:48
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			288.1 mL	10.0 mL	363230	03/10/20 05:36	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363812	03/10/20 23:17	AP1	TAL SAC

Client Sample ID: BH20200306-2South-75
Lab Sample ID: 320-59289-21
Date Collected: 03/06/20 10:50
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277 mL	10.0 mL	363231	03/10/20 05:45	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363536	03/11/20 09:54	D1R	TAL SAC

Client Sample ID: BH20200306-3South-25
Lab Sample ID: 320-59289-22
Date Collected: 03/06/20 11:16
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.3 mL	10.0 mL	363231	03/10/20 05:45	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363536	03/11/20 10:04	D1R	TAL SAC

Client Sample ID: BH20200306-3South-50
Lab Sample ID: 320-59289-23
Date Collected: 03/06/20 11:18
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			287.9 mL	10.0 mL	363231	03/10/20 05:45	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363536	03/11/20 10:13	D1R	TAL SAC

Client Sample ID: BH20200306-3South-75
Lab Sample ID: 320-59289-24
Date Collected: 03/06/20 11:20
Matrix: Water
Date Received: 03/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.4 mL	10.0 mL	363231	03/10/20 05:45	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			363536	03/11/20 10:22	D1R	TAL SAC

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

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11666	04-01-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic 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	Perfluorooctanesulfonamide (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)

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-20

Method Summary

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-59289-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	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 SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.
Job ID: 320-59289-1
Project/Site: Stewart ANGB - Butterhill #336089

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-59289-1	BH20200306PRE-GAC	Water	03/06/20 09:48	03/07/20 09:25	
320-59289-2	BH20200306POST-GACDUP	Water	03/06/20 09:35	03/07/20 09:25	
320-59289-3	BH20200306POST-GAC	Water	03/06/20 09:41	03/07/20 09:25	
320-59289-4	BH20200306-1North-25	Water	03/06/20 10:02	03/07/20 09:25	
320-59289-5	BH20200306-1North-50	Water	03/06/20 10:04	03/07/20 09:25	
320-59289-6	BH20200306-1North-75	Water	03/06/20 10:06	03/07/20 09:25	
320-59289-7	BH20200306-2North-25	Water	03/06/20 10:32	03/07/20 09:25	
320-59289-8	BH20200306-2North-50	Water	03/06/20 10:33	03/07/20 09:25	
320-59289-9	BH20200306-2North-75	Water	03/06/20 10:36	03/07/20 09:25	
320-59289-10	BH20200306-3North-25	Water	03/06/20 11:02	03/07/20 09:25	
320-59289-11	BH20200306-3North-50	Water	03/06/20 11:06	03/07/20 09:25	
320-59289-12	BH20200306-3North-75	Water	03/06/20 11:08	03/07/20 09:25	
320-59289-13	BH20200306-1Raw	Water	03/06/20 11:40	03/07/20 09:25	
320-59289-14	BH20200306-2Raw	Water	03/06/20 11:52	03/07/20 09:25	
320-59289-15	BH20200306-3Raw	Water	03/06/20 12:05	03/07/20 09:25	
320-59289-16	BH20200306-1South-25	Water	03/06/20 10:10	03/07/20 09:25	
320-59289-17	BH20200306-1South-50	Water	03/06/20 10:12	03/07/20 09:25	
320-59289-18	BH20200306-1South-75	Water	03/06/20 10:14	03/07/20 09:25	
320-59289-19	BH20200306-2South-25	Water	03/06/20 10:46	03/07/20 09:25	
320-59289-20	BH20200306-2South-50	Water	03/06/20 10:48	03/07/20 09:25	
320-59289-21	BH20200306-2South-75	Water	03/06/20 10:50	03/07/20 09:25	
320-59289-22	BH20200306-3South-25	Water	03/06/20 11:16	03/07/20 09:25	
320-59289-23	BH20200306-3South-50	Water	03/06/20 11:18	03/07/20 09:25	
320-59289-24	BH20200306-3South-75	Water	03/06/20 11:20	03/07/20 09:25	

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Albany #224

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: B. Powers	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-143043-31696.2
Client Contact: Jeffrey Redfield	Phone: (315) 412-3479	E-Mail: judy.stone@testamericainc.com		Page: Page 2 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard TAT			
State, Zip: NY, 12065				
Phone: 518-402-9813(Tel)	PO #: Callout ID: 137349			
Email: jeffrey.redfield@arcadis.com	WO #:			
Project Name: Stewart ANGB - Butterhill #336089	Project #: 48020960			
Site:	SSOW#:			

Analysis Requested

320-59289 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 analytes)	PFAS_DI_DW - (MOD) PFAS, UCMR List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
BH20200306PRE-GAC	3/6/20	09:48	G	Water	N	N	2		2	
BH20200306POST-GACDUP	3/6/20	09:35	G	Water	N	N	2		2	
BH20200306POST-GAC	3/6/20	09:41	G	Water	N	N	2		2	
BH20200306-1North-25	3/6/20	10:02	G	Water	N	N	2		2	
BH20200306-1North-50	3/6/20	10:04	G	Water	N	N	2		2	
BH20200306-1North-75	3/6/20	10:06	G	Water	N	N	2		2	
BH20200306-2North-25	3/6/20	10:32	G	Water	N	N	2		2	
BH20200306-2North-50	3/6/20	10:33	G	Water	N	N	2		2	
BH20200306-2North-75	3/6/20	10:36	G	Water	N	N	2		2	
BH20200306-3North-25	3/6/20	11:02	G	Water	N	N	2		2	
BH20200306-3North-50	3/6/20	11:06	G	Water	N	N	2		2	

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Susan Powers	3/6/2020 1450	Arcadis	Karl Jordan	3/6/20 1450	Eurofins
Relinquished by: Karl Jordan	Date/Time: 3/4/20 1700	Company Eurofins	Received by: Gabriel Long	Date/Time: 3/7/20 928	Company Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4°C, 0.3°C

Ver: 01/16/2019

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Albany #224

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: B. Powers	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-143043-31696.3
Client Contact: Jeffrey Redfield	Phone: (315) 412-3479	E-Mail: judy.stone@testamericainc.com		Page: Page 3 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard TAT			
State, Zip: NY, 12065				
Phone: 518-402-9813(Tel)	PO #: Callout ID: 137349			
Email: jeffrey.redfield@arcadis.com	WO #:			
Project Name: Stewart ANGB - Butterhill #336089	Project #: 48020960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 analytes)	PFAS_DI_DW - (MOD) PFAS, UCMR List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
BH20200306-3North-75	3/6/20	11:08	G	Water	N	N	2		2	
BH20200306-1Raw	3/6/20	11:40	G	Water	N	N	2		2	
BH20200306-2Raw	3/6/20	11:52	G	Water	N	N	2		2	
BH20200306-3Raw	3/6/20	12:05	G	Water	N	N	2		2	
BH20200306-PostGACMS	3/6/20	09:33	G	Water	N		2		2	MS
BH20200306-PostGACMSD	3/6/20	09:34	G	Water	N		2		2	MSD
BH20200306-1South-25	3/6/20	10:10	G	Water	N	N	2		2	
BH20200306-1South-50	3/6/20	10:12	G	Water	N	N	2		2	
BH20200306-1South-75	3/6/20	10:14	G	Water	N	N	2		2	
BH20200306-2South-25	3/6/20	10:46	G	Water	N	N	2		2	
BH20200306-2South-50	3/6/20	10:48	G	Water	N	N	2		2	

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Bryan Powers	3/6/2020 1450	Arcadis	Karl Yoder	3/6/20 1450	Eurofins
2	Karl Yoder	3/7/20 1200	Eurofins	Dakota Aga	3/7/20 925	Eurofins
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.3°C, 0.4°C

Ver: 01/16/2019

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Albany #224

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: B. Powers	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-143043-31696.4
Client Contact: Jeffrey Redfield	Phone: (315)412-3479	E-Mail: judy.stone@testamericainc.com		Page: Page 4 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard TAT			
State, Zip: NY, 12065				
Phone: 518-402-9813(Tel)	PO #: Callout ID: 137349			
Email: jeffrey.redfield@arcadis.com	WO #:			
Project Name: Stewart ANGB - Butterhill #336089	Project #: 48020960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 analytes)	PFAS_DI_DW - (MOD) PFAS, UCMR List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
BH20200306-2South-75	3/6/20	10:50	G	Water	N	N	2		2	
BH20200306-3South-25	3/6/20	11:16	G	Water	N	N	2		2	
BH20200306-3South-50	3/6/20	11:18	G	Water	N	N	2		2	
BH20200306-3South-75	3/6/20	11:20	G	water	N	N	2		2	

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tyson Powers	3/6/2020 1450	Arcadis	Ral Loeb	3/6/20 1450	Eurofins
Ral Loeb	3/6/20 1700	Eurofins	Gabriela Anaya	3/7/20 925	EEASac
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.3c, 0.4c

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 320-59289-1

Login Number: 59289 **List Source: Eurofins TestAmerica, Sacramento**
List Number: 1
Creator: Oropeza, Salvador

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	1138389, 1138388
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	N/A	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	