

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## Division of Environmental Remediation

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www.dec.ny.gov

August 19, 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 **August 4, 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 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.

During this event, sampling for the 21 PFAS list was conducted at 29 locations.

- pre-treatment (raw untreated water), which has a "BH20200804PRE-GAC" identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 1), which has a "BH20200804-1North-25" identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 1), which has a "BH20200804-1North-50" identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 1), which has a "BH20200804-1North-75" identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 2), which has a "BH20200804-2North-25" identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 2), which has a "BH20200804-2North-50" identifier in the Client Sample ID;

- 75 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20200804-2North-75” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20200804-3North-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20200804-3North-50” identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20200804-3North-75” identifier in the Client Sample ID;
- Butterhill Well No.1 raw untreated water; which has a “BH20200804-1RAW” identifier in the Client Sample ID;
- Butterhill Well No.2 raw untreated water; which has a “BH20200804-2RAW” identifier in the Client Sample ID;
- Butterhill Well No.3 raw untreated water; which has a “BH20200804-3RAW” identifier in the Client Sample ID;
- Post-treatment (treated water after all GAC trains), which has a “BH20200804POST-GAC” identifier in the Client Sample ID.
- 25 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20200804-1S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20200804-1S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20200804-1S-75” identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20200804-2S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20200804-2S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20200804-2S-75” identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20200804-3S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20200804-3S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20200804-3S-75” identifier in the Client Sample ID;
- mid-treatment (after the first GAC canister in Pair Train No. 1 and prior to the second GAC canister in Pair Train No.1), which has a “BH2020804-1MID-POINT” identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 1), which has a “BH2020804-1 POST” identifier in the Client Sample ID;
- mid-treatment (after the first GAC canister in Pair Train No. 2 and prior to the second GAC canister in Pair Train No.2), which has a “BH2020804-2MID-POINT” identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 2), which has a “BH2020804-2 POST” identifier in the Client Sample ID;
- mid-treatment (after the first GAC canister in Pair Train No. 3 and prior to the second GAC canister in Pair Train No.3), which has a “BH2020804-3MID-POINT” identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 3), which has a “BH2020804-3 POST” identifier in the Client Sample ID;

The 29 locations sampled (and their associated identifiers) are depicted in Figure 1.

Please note that, with New York State Department of Health concurrence, GAC treatment system sample frequency moving forward has become quarterly. Therefore, the next sampling event will be scheduled for December 2020.

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](mailto: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](mailto:steven.gladding@health.ny.gov) .

Sincerely,



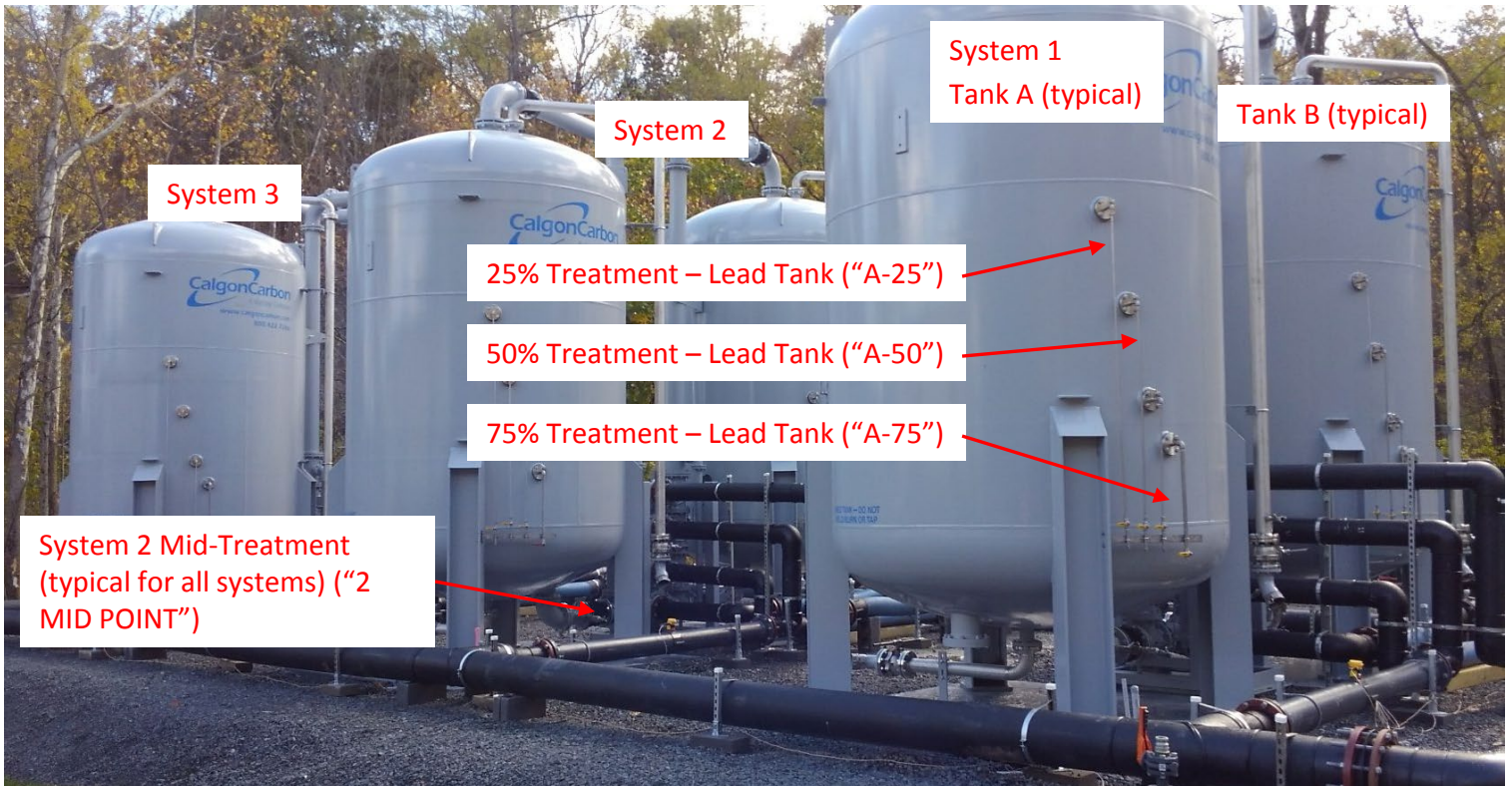
David J. Chiusano  
Environmental Engineer/Project Manager  
Remedial Section A, Remedial Bureau E  
Division of Environmental Remediation

#### Enclosures

ec: w/enclosures  
D. Zagon, Town of New Windsor  
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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

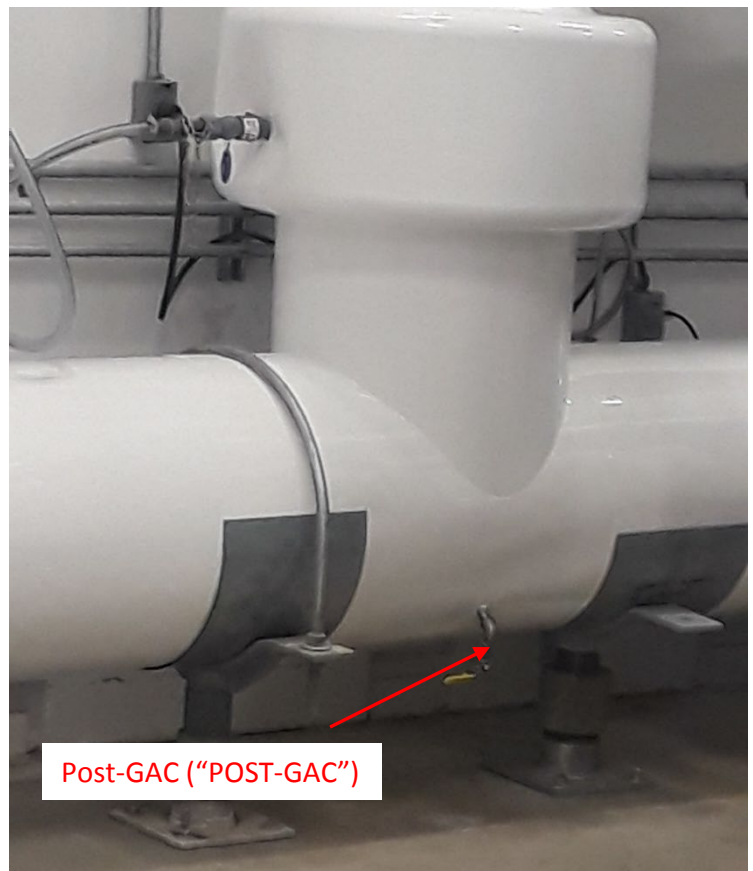
**Figure 1  
Sampling Locations**

Butterhill Plant Temporary GAC Treatment System



Post-Filters, Pre-GAC (“PRE-GAC”)

25%, 50%, 75% sample locations repeated on Lag “B” Tanks. Post-treatment taps for each individual System can be collected after each Lag “B” Tank, same sample location as MID-POINT sample location on Lead “A” Tank.



**Town of New Windsor**  
**Butterhill Wellfield Temporary GAC Operation and Maintenance PFOA and PFOS Sampling Results \* (Parts Per Trillion (PPT))**

Date	Analyte	Well 1 <sup>1</sup> Raw Water	Well 2 Raw Water	Well 3 Raw Water	Pre GAC Raw Water (Combined)	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 <sup>3</sup>	Proposed NYS MCLs <sup>4</sup>
December 2019 (Well 3)	PFOA	2.6	3.5	5.0	2.5	ND <sup>2</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
	PFOS	3.7	2.4	8.9	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
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 <sup>3</sup>	10 <sup>4</sup>
	PFOS	3.3	2.4	7.7	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
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 <sup>3</sup>	10 <sup>4</sup>
	PFOS	3.6	2.7	6.0	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
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 <sup>3</sup>	10 <sup>4</sup>
	PFOS	3.6	2.8	5.4	3.3	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
April 2020 (Well 1)	PFOA	3.0	3.1	2.8	2.8	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
	PFOS	3.4	2.2	4.5	3.0	ND	ND	ND	2.0	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
May 2020 (Well 3 <sup>**</sup> )	PFOA	3.3	NS	3.7	3.1	2.3	ND	ND	2.7	1.8	ND	2.4	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
	PFOS	3.8	NS	5.9	5.0	2.9	ND	ND	3.5	1.9	ND	3.0	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
August 2020 (Well 3 <sup>**</sup> )	PFOA	2.5	2.7	4.3	4.4	4.1	2.8	ND	3.9	3.1	1.8	4.1	2.6	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
	PFOS	3.2	2.2	8.1	8.5	6.1	3.0	ND	6.2	3.5	ND	6.6	2.7	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>



**Town of New Windsor**

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

Date	Analyte	GAC Pair 1 Mid-Point	GAC Pair 1 Post	GAC Pair 1 Lag 25%(South)	GAC Pair 1 Lag 50% (South)	GAC Pair 1 Lag 75%(South)	GAC Pair 2 Mid-Point	GAC Pair 2 Post	GAC Pair 2 Lag 25% (South)	GAC Pair 2 Lag 50%(South)	GAC Pair 2 Lag 75%(South)	GAC Pair 3 Mid-Point	GAC Pair 3 Post	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 <sup>3</sup>	Proposed NYS MCLs <sup>4</sup>
February 2020 (Well 2)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
March 2020 (Well 1 <sup>**</sup> )	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
April 2020 (Well 1)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
May 2020 (Well 3 <sup>**</sup> )	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
August 2020 (Well 3 <sup>**</sup> )	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70 <sup>3</sup>	10 <sup>4</sup>

**Notes:**

\* 21 PFAS List Analysis.

\*\* At time of sampling Production Well No. 3 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 if 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.



## ANALYTICAL REPORT

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

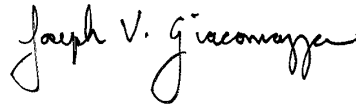
Laboratory Job ID: 320-63408-1

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



Authorized for release by:  
8/13/2020 3:50:00 PM

Joe Giacomazza, Project Manager I  
[joe.giacomazza@testamericainc.com](mailto:joe.giacomazza@testamericainc.com)

Designee for

Judy Stone, Senior Project Manager  
(484)685-0868  
[Judy.Stone@Eurofinset.com](mailto:Judy.Stone@Eurofinset.com)

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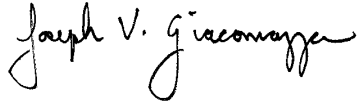
[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

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

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

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 Manager I  
8/13/2020 3:50:00 PM

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# Definitions/Glossary

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

Job ID: 320-63408-1

## 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

# Case Narrative

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

Job ID: 320-63408-1

## Job ID: 320-63408-1

### Laboratory: Eurofins TestAmerica, Sacramento

#### Narrative

#### Job Narrative 320-63408-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/5/2020 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.2° C and 0.4° C.

#### Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): BH20200804-3Mid Point (320-63408-23). The container labels list the time as 10:02, while the COC lists 10:03. The samples were labeled according to COC.

#### LCMS

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-8:2 FTS and M2-6:2 FTS for the following sample: BH20200804-3North-25 (320-63408-11). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS the following sample: BH20200804-1 Mid-Point (320-63408-18). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-8:2 FTS for the following sample: BH20200804-3South-75 (320-63408-26). 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 sample is light blue after final voluming:  
BH20200804-1 Mid-Point (320-63408-18)

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with: preparation batch 320-402043.

Method 3535: The following samples were preserved with Trizma: BH20200804-3North-50 (320-63408-21), BH20200804-3North-75 (320-63408-22), BH20200804-3Mid Point (320-63408-23), BH20200804-3South-25 (320-63408-24), BH20200804-3South-50 (320-63408-25), BH20200804-3South-75 (320-63408-26), BH20200804-3Post (320-63408-27), BH20200804-1RAW (320-63408-28), BH20200804-2RAW (320-63408-29) and BH20200804-3RAW (320-63408-30). Thus, the MB, LCS, and LCSD also contain Trizma.

Method 3535: The following samples BH20200804-1South-25 (320-63408-19), BH20200804-1South-50 (320-63408-20), BH20200804-3North-50 (320-63408-21), BH20200804-3North-75 (320-63408-22), BH20200804-3Mid Point (320-63408-23), BH20200804-3South-25 (320-63408-24), BH20200804-3South-50 (320-63408-25), BH20200804-3South-75 (320-63408-26), BH20200804-3Post (320-63408-27), BH20200804-1RAW (320-63408-28), BH20200804-2RAW (320-63408-29) and BH20200804-3RAW (320-63408-30) in preparation batch 320-402492 were already preserved with Trizma (Lot: 19410205) when obtained from sample receiving. The QCs were therefore preserved with 1.25 grams of Trizma (Lot: SLCD7801).

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-402492.

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: 320-63408-1

## Client Sample ID: BH20200804-1South-75

## Lab Sample ID: 320-63408-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.6		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-1POST

## Lab Sample ID: 320-63408-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.9		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: BH20200804-2North-25

## Lab Sample ID: 320-63408-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.5		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.8		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.3		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.1		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.9		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.2		1.9		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-2North-50

## Lab Sample ID: 320-63408-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.8		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.4		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.1		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.0		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.5		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-2North-75

## Lab Sample ID: 320-63408-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.7		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.0		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.8		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-2 Mid-Point

## Lab Sample ID: 320-63408-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.0		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)	3.1		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-2South-25

## Lab Sample ID: 320-63408-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.0		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.2		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.8		1.7		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.  
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-63408-1

## Client Sample ID: BH20200804-2South-50

Lab Sample ID: 320-63408-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.0		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-2South-75

Lab Sample ID: 320-63408-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.9		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-2POST

Lab Sample ID: 320-63408-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.9		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.1		1.7		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-3North-25

Lab Sample ID: 320-63408-11

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)	8.1		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.1		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.1		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.1		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)	4.0		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.6		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804POST-GAC

Lab Sample ID: 320-63408-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.8		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.2		1.7		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804POST-GAC DUP

Lab Sample ID: 320-63408-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.1		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: BH20200804PRE-GAC

Lab Sample ID: 320-63408-14

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)	8.2		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.8		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.2		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.4		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.9		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	8.5		1.7		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-1North-25

Lab Sample ID: 320-63408-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.5		1.9		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.  
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-63408-1

## Client Sample ID: BH20200804-1North-25 (Continued)

Lab Sample ID: 320-63408-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	7.7		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.3		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.8		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.1		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.4		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.1		1.9		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-1North-50

Lab Sample ID: 320-63408-16

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)	7.4		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.7		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.2		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.8		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.7		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.6		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.0		1.7		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-1North-75

Lab Sample ID: 320-63408-17

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)	6.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.9		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-1 Mid-Point

Lab Sample ID: 320-63408-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.5		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.1		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.9		1.7		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-1South-25

Lab Sample ID: 320-63408-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.0		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-1South-50

Lab Sample ID: 320-63408-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.8		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.5		1.7		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-3North-50

Lab Sample ID: 320-63408-21

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)	6.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.2		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.  
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-63408-1

## Client Sample ID: BH20200804-3North-50 (Continued)

Lab Sample ID: 320-63408-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.7		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-3North-75

Lab Sample ID: 320-63408-22

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)	6.0		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.2		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-3Mid Point

Lab Sample ID: 320-63408-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.2		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.4		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.6		1.9		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-3South-25

Lab Sample ID: 320-63408-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.5		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.8		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-3South-50

Lab Sample ID: 320-63408-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.3		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.1		1.9		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-3South-75

Lab Sample ID: 320-63408-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.7		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.3		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-3Post

Lab Sample ID: 320-63408-27

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)	2.1		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-1RAW

Lab Sample ID: 320-63408-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.9		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)	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)	2.8		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.2		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.  
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-63408-1

## Client Sample ID: BH20200804-2RAW

## Lab Sample ID: 320-63408-29

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)	4.3		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)	2.7		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)	2.2		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20200804-3RAW

## Lab Sample ID: 320-63408-30

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)	7.5		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.5		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.1		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	8.1		1.8		ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1South-75**

**Lab Sample ID: 320-63408-1**

**Date Collected: 08/04/20 09:24**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>6.6</b>		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 14:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 14:23	1
6:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 14:23	1
8:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 14:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C5 PFPeA	108		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C2 PFHxA	112		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C4 PFHpA	106		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C4 PFOA	105		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C5 PFNA	101		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C2 PFDA	100		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C2 PFUnA	106		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C2 PFDoA	106		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C2 PFTeDA	89		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C3 PFBS	103		25 - 150	08/06/20 18:15	08/08/20 14:23	1
18O2 PFHxS	109		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C4 PFOS	102		25 - 150	08/06/20 18:15	08/08/20 14:23	1
13C8 FOSA	102		25 - 150	08/06/20 18:15	08/08/20 14:23	1
d3-NMeFOSAA	106		25 - 150	08/06/20 18:15	08/08/20 14:23	1
d5-NEtFOSAA	117		25 - 150	08/06/20 18:15	08/08/20 14:23	1
M2-6:2 FTS	117		25 - 150	08/06/20 18:15	08/08/20 14:23	1
M2-8:2 FTS	123		25 - 150	08/06/20 18:15	08/08/20 14:23	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1POST**

**Lab Sample ID: 320-63408-2**

Date Collected: 08/04/20 09:26

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.9		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluoropentanoic acid (PFPeA)	2.2		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 14:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 14:32	1
6:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 14:32	1
8:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 14:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	101		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C5 PFPeA	108		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C2 PFHxA	109		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C4 PFHpA	99		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C4 PFOA	108		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C5 PFNA	105		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C2 PFDA	101		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C2 PFUnA	96		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C2 PFDoA	98		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C2 PFTeDA	86		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C3 PFBS	107		25 - 150	08/06/20 18:15	08/08/20 14:32	1
18O2 PFHxS	106		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C4 PFOS	102		25 - 150	08/06/20 18:15	08/08/20 14:32	1
13C8 FOSA	102		25 - 150	08/06/20 18:15	08/08/20 14:32	1
d3-NMeFOSAA	100		25 - 150	08/06/20 18:15	08/08/20 14:32	1
d5-NEtFOSAA	110		25 - 150	08/06/20 18:15	08/08/20 14:32	1
M2-6:2 FTS	145		25 - 150	08/06/20 18:15	08/08/20 14:32	1
M2-8:2 FTS	122		25 - 150	08/06/20 18:15	08/08/20 14:32	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-2North-25**

**Lab Sample ID: 320-63408-3**

Date Collected: 08/04/20 09:34

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.5		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluoropentanoic acid (PFPeA)	7.8		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorohexanoic acid (PFHxA)	5.3		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluoroheptanoic acid (PFHpA)	3.1		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorooctanoic acid (PFOA)	3.9		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorobutanesulfonic acid (PFBS)	1.9		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorooctanesulfonic acid (PFOS)	6.2		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 14:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19		ng/L		08/06/20 18:15	08/08/20 14:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19		ng/L		08/06/20 18:15	08/08/20 14:42	1
6:2 FTS	ND		19		ng/L		08/06/20 18:15	08/08/20 14:42	1
8:2 FTS	ND		19		ng/L		08/06/20 18:15	08/08/20 14:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C5 PFPeA	97		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C2 PFHxA	104		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C4 PFHpA	99		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C4 PFOA	102		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C5 PFNA	102		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C2 PFDA	105		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C2 PFUnA	93		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C2 PFDoA	93		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C2 PFTeDA	82		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C3 PFBS	98		25 - 150	08/06/20 18:15	08/08/20 14:42	1
18O2 PFHxS	105		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C4 PFOS	101		25 - 150	08/06/20 18:15	08/08/20 14:42	1
13C8 FOSA	98		25 - 150	08/06/20 18:15	08/08/20 14:42	1
d3-NMeFOSAA	110		25 - 150	08/06/20 18:15	08/08/20 14:42	1
d5-NEtFOSAA	107		25 - 150	08/06/20 18:15	08/08/20 14:42	1
M2-6:2 FTS	121		25 - 150	08/06/20 18:15	08/08/20 14:42	1
M2-8:2 FTS	126		25 - 150	08/06/20 18:15	08/08/20 14:42	1

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-2North-50**

**Lab Sample ID: 320-63408-4**

Date Collected: 08/04/20 09:38

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.2		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluoropentanoic acid (PFPeA)	7.3		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorohexanoic acid (PFHxA)	4.8		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluoroheptanoic acid (PFHpA)	2.4		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorooctanoic acid (PFOA)	3.1		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorohexanesulfonic acid (PFHxS)	3.0		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorooctanesulfonic acid (PFOS)	3.5		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 14:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 14:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 14:51	1
6:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 14:51	1
8:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 14:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	66		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C5 PFPeA	68		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C2 PFHxA	74		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C4 PFHpA	73		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C4 PFOA	74		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C5 PFNA	78		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C2 PFDA	69		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C2 PFUnA	73		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C2 PFDoA	76		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C2 PFTeDA	68		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C3 PFBS	78		25 - 150	08/06/20 18:15	08/08/20 14:51	1
18O2 PFHxS	76		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C4 PFOS	76		25 - 150	08/06/20 18:15	08/08/20 14:51	1
13C8 FOSA	73		25 - 150	08/06/20 18:15	08/08/20 14:51	1
d3-NMeFOSAA	73		25 - 150	08/06/20 18:15	08/08/20 14:51	1
d5-NEtFOSAA	81		25 - 150	08/06/20 18:15	08/08/20 14:51	1
M2-6:2 FTS	87		25 - 150	08/06/20 18:15	08/08/20 14:51	1
M2-8:2 FTS	90		25 - 150	08/06/20 18:15	08/08/20 14:51	1

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-2North-75**

**Lab Sample ID: 320-63408-5**

Date Collected: 08/04/20 09:40

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.3		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluoropentanoic acid (PFPeA)	6.7		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorohexanoic acid (PFHxA)	4.0		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorooctanoic acid (PFOA)	1.8		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 15:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 15:00	1
6:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 15:00	1
8:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 15:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C5 PFPeA	104		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C2 PFHxA	108		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C4 PFHpA	103		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C4 PFOA	107		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C5 PFNA	112		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C2 PFDA	106		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C2 PFUnA	95		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C2 PFDoA	93		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C2 PFTeDA	87		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C3 PFBS	105		25 - 150	08/06/20 18:15	08/08/20 15:00	1
18O2 PFHxS	108		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C4 PFOS	103		25 - 150	08/06/20 18:15	08/08/20 15:00	1
13C8 FOSA	105		25 - 150	08/06/20 18:15	08/08/20 15:00	1
d3-NMeFOSAA	102		25 - 150	08/06/20 18:15	08/08/20 15:00	1
d5-NEtFOSAA	104		25 - 150	08/06/20 18:15	08/08/20 15:00	1
M2-6:2 FTS	142		25 - 150	08/06/20 18:15	08/08/20 15:00	1
M2-8:2 FTS	124		25 - 150	08/06/20 18:15	08/08/20 15:00	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-2 Mid-Point**

**Lab Sample ID: 320-63408-6**

Date Collected: 08/04/20 09:43

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.0		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluoropentanoic acid (PFPeA)	6.1		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorohexanoic acid (PFHxA)	3.1		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 15:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 15:10	1
6:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 15:10	1
8:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 15:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C5 PFPeA	106		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C2 PFHxA	107		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C4 PFHpA	106		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C4 PFOA	104		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C5 PFNA	105		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C2 PFDA	105		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C2 PFUnA	97		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C2 PFDoA	90		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C2 PFTeDA	79		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C3 PFBS	106		25 - 150	08/06/20 18:15	08/08/20 15:10	1
18O2 PFHxS	110		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C4 PFOS	100		25 - 150	08/06/20 18:15	08/08/20 15:10	1
13C8 FOSA	97		25 - 150	08/06/20 18:15	08/08/20 15:10	1
d3-NMeFOSAA	97		25 - 150	08/06/20 18:15	08/08/20 15:10	1
d5-NEtFOSAA	105		25 - 150	08/06/20 18:15	08/08/20 15:10	1
M2-6:2 FTS	114		25 - 150	08/06/20 18:15	08/08/20 15:10	1
M2-8:2 FTS	125		25 - 150	08/06/20 18:15	08/08/20 15:10	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-2South-25**

**Lab Sample ID: 320-63408-7**

Date Collected: 08/04/20 09:45

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.0		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluoropentanoic acid (PFPeA)	5.2		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorohexanoic acid (PFHxA)	1.8		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 15:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 15:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 15:19	1
6:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 15:19	1
8:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 15:19	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	106		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C5 PFPeA	109		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C2 PFHxA	108		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C4 PFHpA	104		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C4 PFOA	106		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C5 PFNA	112		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C2 PFDA	103		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C2 PFUnA	103		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C2 PFDoA	102		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C2 PFTeDA	95		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C3 PFBS	108		25 - 150				08/06/20 18:15	08/08/20 15:19	1
18O2 PFHxS	106		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C4 PFOS	105		25 - 150				08/06/20 18:15	08/08/20 15:19	1
13C8 FOSA	102		25 - 150				08/06/20 18:15	08/08/20 15:19	1
d3-NMeFOSAA	102		25 - 150				08/06/20 18:15	08/08/20 15:19	1
d5-NEtFOSAA	115		25 - 150				08/06/20 18:15	08/08/20 15:19	1
M2-6:2 FTS	117		25 - 150				08/06/20 18:15	08/08/20 15:19	1
M2-8:2 FTS	127		25 - 150				08/06/20 18:15	08/08/20 15:19	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-2South-50**

**Lab Sample ID: 320-63408-8**

**Date Collected: 08/04/20 09:48**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.3		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluoropentanoic acid (PFPeA)	4.0		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 15:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 15:29	1
6:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 15:29	1
8:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 15:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C5 PFPeA	106		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C2 PFHxA	107		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C4 PFHpA	102		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C4 PFOA	101		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C5 PFNA	107		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C2 PFDA	100		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C2 PFUnA	106		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C2 PFDoA	101		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C2 PFTeDA	101		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C3 PFBS	103		25 - 150	08/06/20 18:15	08/08/20 15:29	1
18O2 PFHxS	100		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C4 PFOS	103		25 - 150	08/06/20 18:15	08/08/20 15:29	1
13C8 FOSA	98		25 - 150	08/06/20 18:15	08/08/20 15:29	1
d3-NMeFOSAA	103		25 - 150	08/06/20 18:15	08/08/20 15:29	1
d5-NEtFOSAA	116		25 - 150	08/06/20 18:15	08/08/20 15:29	1
M2-6:2 FTS	108		25 - 150	08/06/20 18:15	08/08/20 15:29	1
M2-8:2 FTS	107		25 - 150	08/06/20 18:15	08/08/20 15:29	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-2South-75**

**Lab Sample ID: 320-63408-9**

**Date Collected: 08/04/20 09:50**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>6.9</b>		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 15:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 15:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 15:57	1
6:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 15:57	1
8:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 15:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	62		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C5 PFPeA	65		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C2 PFHxA	67		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C4 PFHpA	63		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C4 PFOA	63		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C5 PFNA	64		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C2 PFDA	63		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C2 PFUnA	60		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C2 PFDoA	56		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C2 PFTeDA	58		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C3 PFBS	69		25 - 150	08/06/20 18:15	08/08/20 15:57	1
18O2 PFHxS	67		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C4 PFOS	61		25 - 150	08/06/20 18:15	08/08/20 15:57	1
13C8 FOSA	55		25 - 150	08/06/20 18:15	08/08/20 15:57	1
d3-NMeFOSAA	65		25 - 150	08/06/20 18:15	08/08/20 15:57	1
d5-NEtFOSAA	68		25 - 150	08/06/20 18:15	08/08/20 15:57	1
M2-6:2 FTS	68		25 - 150	08/06/20 18:15	08/08/20 15:57	1
M2-8:2 FTS	71		25 - 150	08/06/20 18:15	08/08/20 15:57	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-2POST**

**Lab Sample ID: 320-63408-10**

Date Collected: 08/04/20 09:53

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.9		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluoropentanoic acid (PFPeA)	2.1		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 16:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 16:06	1
6:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 16:06	1
8:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 16:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	105		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C5 PFPeA	112		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C2 PFHxA	110		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C4 PFHpA	103		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C4 PFOA	106		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C5 PFNA	112		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C2 PFDA	110		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C2 PFUnA	106		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C2 PFDoA	115		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C2 PFTeDA	102		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C3 PFBS	114		25 - 150	08/06/20 18:15	08/08/20 16:06	1
18O2 PFHxS	110		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C4 PFOS	105		25 - 150	08/06/20 18:15	08/08/20 16:06	1
13C8 FOSA	107		25 - 150	08/06/20 18:15	08/08/20 16:06	1
d3-NMeFOSAA	113		25 - 150	08/06/20 18:15	08/08/20 16:06	1
d5-NEtFOSAA	125		25 - 150	08/06/20 18:15	08/08/20 16:06	1
M2-6:2 FTS	117		25 - 150	08/06/20 18:15	08/08/20 16:06	1
M2-8:2 FTS	129		25 - 150	08/06/20 18:15	08/08/20 16:06	1



# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-3North-25**

**Lab Sample ID: 320-63408-11**

Date Collected: 08/04/20 09:57

Matrix: Water

Date Received: 08/05/20 10:00

**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		08/06/20 18:15	08/08/20 16:16	1
Perfluoropentanoic acid (PFPeA)	8.1		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorohexanoic acid (PFHxA)	5.1		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluoroheptanoic acid (PFHpA)	3.1		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorooctanoic acid (PFOA)	4.1		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorobutanesulfonic acid (PFBS)	2.1		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorohexanesulfonic acid (PFHxS)	4.0		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorooctanesulfonic acid (PFOS)	6.6		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 16:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 16:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 16:16	1
6:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 16:16	1
8:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 16:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	117		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C5 PFPeA	124		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C2 PFHxA	135		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C4 PFHpA	131		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C4 PFOA	125		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C5 PFNA	127		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C2 PFDA	131		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C2 PFUnA	128		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C2 PFDoA	126		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C2 PFTeDA	112		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C3 PFBS	127		25 - 150	08/06/20 18:15	08/08/20 16:16	1
18O2 PFHxS	129		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C4 PFOS	126		25 - 150	08/06/20 18:15	08/08/20 16:16	1
13C8 FOSA	131		25 - 150	08/06/20 18:15	08/08/20 16:16	1
d3-NMeFOSAA	132		25 - 150	08/06/20 18:15	08/08/20 16:16	1
d5-NEtFOSAA	145		25 - 150	08/06/20 18:15	08/08/20 16:16	1
M2-6:2 FTS	156	*5	25 - 150	08/06/20 18:15	08/08/20 16:16	1
M2-8:2 FTS	165	*5	25 - 150	08/06/20 18:15	08/08/20 16:16	1

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804POST-GAC**

**Lab Sample ID: 320-63408-12**

Date Collected: 08/04/20 08:49

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.8		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluoropentanoic acid (PFPeA)	2.2		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 16:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 16:25	1
6:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 16:25	1
8:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 16:25	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	102		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C5 PFPeA	110		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C2 PFHxA	111		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C4 PFHpA	102		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C4 PFOA	105		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C5 PFNA	104		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C2 PFDA	102		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C2 PFUnA	102		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C2 PFDoA	98		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C2 PFTeDA	99		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C3 PFBS	105		25 - 150				08/06/20 18:15	08/08/20 16:25	1
18O2 PFHxS	109		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C4 PFOS	102		25 - 150				08/06/20 18:15	08/08/20 16:25	1
13C8 FOSA	103		25 - 150				08/06/20 18:15	08/08/20 16:25	1
d3-NMeFOSAA	106		25 - 150				08/06/20 18:15	08/08/20 16:25	1
d5-NEtFOSAA	110		25 - 150				08/06/20 18:15	08/08/20 16:25	1
M2-6:2 FTS	123		25 - 150				08/06/20 18:15	08/08/20 16:25	1
M2-8:2 FTS	121		25 - 150				08/06/20 18:15	08/08/20 16:25	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804POST-GAC DUP**

**Lab Sample ID: 320-63408-13**

Date Collected: 08/04/20 08:51

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.1		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluoropentanoic acid (PFPeA)	2.3		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 16:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 16:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 16:53	1
6:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 16:53	1
8:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 16:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	109		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C5 PFPeA	114		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C2 PFHxA	117		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C4 PFHpA	112		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C4 PFOA	110		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C5 PFNA	109		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C2 PFDA	108		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C2 PFUnA	104		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C2 PFDoA	103		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C2 PFTeDA	102		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C3 PFBS	106		25 - 150	08/06/20 18:15	08/08/20 16:53	1
18O2 PFHxS	111		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C4 PFOS	111		25 - 150	08/06/20 18:15	08/08/20 16:53	1
13C8 FOSA	108		25 - 150	08/06/20 18:15	08/08/20 16:53	1
d3-NMeFOSAA	110		25 - 150	08/06/20 18:15	08/08/20 16:53	1
d5-NEtFOSAA	117		25 - 150	08/06/20 18:15	08/08/20 16:53	1
M2-6:2 FTS	128		25 - 150	08/06/20 18:15	08/08/20 16:53	1
M2-8:2 FTS	125		25 - 150	08/06/20 18:15	08/08/20 16:53	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804PRE-GAC**

**Lab Sample ID: 320-63408-14**

Date Collected: 08/04/20 09:01

Matrix: Water

Date Received: 08/05/20 10:00

**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		08/06/20 18:15	08/08/20 17:03	1
Perfluoropentanoic acid (PFPeA)	8.2		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorohexanoic acid (PFHxA)	5.8		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluoroheptanoic acid (PFHpA)	3.2		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorooctanoic acid (PFOA)	4.4		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorobutanesulfonic acid (PFBS)	2.0		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorohexanesulfonic acid (PFHxS)	4.9		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorooctanesulfonic acid (PFOS)	8.5		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 17:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 17:03	1
6:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 17:03	1
8:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 17:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C5 PFPeA	101		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C2 PFHxA	105		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C4 PFHpA	105		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C4 PFOA	108		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C5 PFNA	111		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C2 PFDA	109		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C2 PFUnA	95		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C2 PFDoA	109		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C2 PFTeDA	97		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C3 PFBS	101		25 - 150	08/06/20 18:15	08/08/20 17:03	1
18O2 PFHxS	108		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C4 PFOS	104		25 - 150	08/06/20 18:15	08/08/20 17:03	1
13C8 FOSA	103		25 - 150	08/06/20 18:15	08/08/20 17:03	1
d3-NMeFOSAA	105		25 - 150	08/06/20 18:15	08/08/20 17:03	1
d5-NEtFOSAA	113		25 - 150	08/06/20 18:15	08/08/20 17:03	1
M2-6:2 FTS	124		25 - 150	08/06/20 18:15	08/08/20 17:03	1
M2-8:2 FTS	118		25 - 150	08/06/20 18:15	08/08/20 17:03	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1North-25**

**Lab Sample ID: 320-63408-15**

Date Collected: 08/04/20 09:11

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.5		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluoropentanoic acid (PFPeA)	7.7		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorohexanoic acid (PFHxA)	5.3		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluoroheptanoic acid (PFHpA)	2.8		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorooctanoic acid (PFOA)	4.1		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorohexanesulfonic acid (PFHxS)	3.4		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorooctanesulfonic acid (PFOS)	6.1		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9		ng/L		08/06/20 18:15	08/08/20 17:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19		ng/L		08/06/20 18:15	08/08/20 17:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19		ng/L		08/06/20 18:15	08/08/20 17:12	1
6:2 FTS	ND		19		ng/L		08/06/20 18:15	08/08/20 17:12	1
8:2 FTS	ND		19		ng/L		08/06/20 18:15	08/08/20 17:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C5 PFPeA	105		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C2 PFHxA	109		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C4 PFHpA	105		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C4 PFOA	105		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C5 PFNA	103		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C2 PFDA	113		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C2 PFUnA	113		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C2 PFDoA	105		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C2 PFTeDA	106		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C3 PFBS	107		25 - 150	08/06/20 18:15	08/08/20 17:12	1
18O2 PFHxS	109		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C4 PFOS	106		25 - 150	08/06/20 18:15	08/08/20 17:12	1
13C8 FOSA	103		25 - 150	08/06/20 18:15	08/08/20 17:12	1
d3-NMeFOSAA	107		25 - 150	08/06/20 18:15	08/08/20 17:12	1
d5-NEtFOSAA	113		25 - 150	08/06/20 18:15	08/08/20 17:12	1
M2-6:2 FTS	126		25 - 150	08/06/20 18:15	08/08/20 17:12	1
M2-8:2 FTS	126		25 - 150	08/06/20 18:15	08/08/20 17:12	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1North-50**

**Lab Sample ID: 320-63408-16**

Date Collected: 08/04/20 09:13

Matrix: Water

Date Received: 08/05/20 10:00

**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		08/06/20 18:15	08/08/20 17:22	1
Perfluoropentanoic acid (PFPeA)	7.4		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorohexanoic acid (PFHxA)	4.7		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluoroheptanoic acid (PFHpA)	2.2		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorooctanoic acid (PFOA)	2.8		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorobutanesulfonic acid (PFBS)	1.7		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorohexanesulfonic acid (PFHxS)	2.6		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorooctanesulfonic acid (PFOS)	3.0		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		08/06/20 18:15	08/08/20 17:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 17:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		08/06/20 18:15	08/08/20 17:22	1
6:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 17:22	1
8:2 FTS	ND		17		ng/L		08/06/20 18:15	08/08/20 17:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C5 PFPeA	109		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C2 PFHxA	114		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C4 PFHpA	113		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C4 PFOA	110		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C5 PFNA	110		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C2 PFDA	112		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C2 PFUnA	110		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C2 PFDoA	111		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C2 PFTeDA	102		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C3 PFBS	108		25 - 150	08/06/20 18:15	08/08/20 17:22	1
18O2 PFHxS	114		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C4 PFOS	115		25 - 150	08/06/20 18:15	08/08/20 17:22	1
13C8 FOSA	111		25 - 150	08/06/20 18:15	08/08/20 17:22	1
d3-NMeFOSAA	111		25 - 150	08/06/20 18:15	08/08/20 17:22	1
d5-NEtFOSAA	120		25 - 150	08/06/20 18:15	08/08/20 17:22	1
M2-6:2 FTS	124		25 - 150	08/06/20 18:15	08/08/20 17:22	1
M2-8:2 FTS	126		25 - 150	08/06/20 18:15	08/08/20 17:22	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1North-75**

**Lab Sample ID: 320-63408-17**

Date Collected: 08/04/20 09:15

Matrix: Water

Date Received: 08/05/20 10:00

**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		08/06/20 18:15	08/08/20 17:50	1
Perfluoropentanoic acid (PFPeA)	6.9		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorohexanoic acid (PFHxA)	3.9		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/06/20 18:15	08/08/20 17:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 17:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/06/20 18:15	08/08/20 17:50	1
6:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 17:50	1
8:2 FTS	ND		18		ng/L		08/06/20 18:15	08/08/20 17:50	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	104		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C5 PFPeA	110		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C2 PFHxA	112		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C4 PFHpA	108		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C4 PFOA	108		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C5 PFNA	111		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C2 PFDA	114		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C2 PFUnA	106		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C2 PFDoA	100		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C2 PFTeDA	104		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C3 PFBS	104		25 - 150				08/06/20 18:15	08/08/20 17:50	1
18O2 PFHxS	109		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C4 PFOS	108		25 - 150				08/06/20 18:15	08/08/20 17:50	1
13C8 FOSA	109		25 - 150				08/06/20 18:15	08/08/20 17:50	1
d3-NMeFOSAA	108		25 - 150				08/06/20 18:15	08/08/20 17:50	1
d5-NEtFOSAA	121		25 - 150				08/06/20 18:15	08/08/20 17:50	1
M2-6:2 FTS	127		25 - 150				08/06/20 18:15	08/08/20 17:50	1
M2-8:2 FTS	128		25 - 150				08/06/20 18:15	08/08/20 17:50	1



# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1 Mid-Point**

**Lab Sample ID: 320-63408-18**

Date Collected: 08/04/20 09:17

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.5		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluoropentanoic acid (PFPeA)	4.1		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorohexanoic acid (PFHxA)	2.9		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		08/06/20 18:15	08/10/20 02:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		08/06/20 18:15	08/10/20 02:20	1
6:2 FTS	ND		17		ng/L		08/06/20 18:15	08/10/20 02:20	1
8:2 FTS	ND		17		ng/L		08/06/20 18:15	08/10/20 02:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	87		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C5 PFPeA	95		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C2 PFHxA	102		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C4 PFHpA	101		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C4 PFOA	108		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C5 PFNA	96		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C2 PFDA	110		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C2 PFUnA	110		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C2 PFDoA	104		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C2 PFTeDA	127		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C3 PFBS	92		25 - 150	08/06/20 18:15	08/10/20 02:20	1
18O2 PFHxS	96		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C4 PFOS	91		25 - 150	08/06/20 18:15	08/10/20 02:20	1
13C8 FOSA	89		25 - 150	08/06/20 18:15	08/10/20 02:20	1
d3-NMeFOSAA	99		25 - 150	08/06/20 18:15	08/10/20 02:20	1
d5-NEtFOSAA	112		25 - 150	08/06/20 18:15	08/10/20 02:20	1
M2-6:2 FTS	214	*5	25 - 150	08/06/20 18:15	08/10/20 02:20	1
M2-8:2 FTS	141		25 - 150	08/06/20 18:15	08/10/20 02:20	1



# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1South-25**

**Lab Sample ID: 320-63408-19**

Date Collected: 08/04/20 09:21

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.0		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluoropentanoic acid (PFPeA)	5.9		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorohexanoic acid (PFHxA)	2.5		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/06/20 18:15	08/10/20 02:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/06/20 18:15	08/10/20 02:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/06/20 18:15	08/10/20 02:29	1
6:2 FTS	ND		18		ng/L		08/06/20 18:15	08/10/20 02:29	1
8:2 FTS	ND		18		ng/L		08/06/20 18:15	08/10/20 02:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	86		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C5 PFPeA	95		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C2 PFHxA	94		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C4 PFHpA	95		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C4 PFOA	96		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C5 PFNA	92		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C2 PFDA	99		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C2 PFUnA	97		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C2 PFDoA	99		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C2 PFTeDA	102		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C3 PFBS	90		25 - 150	08/06/20 18:15	08/10/20 02:29	1
18O2 PFHxS	92		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C4 PFOS	83		25 - 150	08/06/20 18:15	08/10/20 02:29	1
13C8 FOSA	88		25 - 150	08/06/20 18:15	08/10/20 02:29	1
d3-NMeFOSAA	95		25 - 150	08/06/20 18:15	08/10/20 02:29	1
d5-NEtFOSAA	102		25 - 150	08/06/20 18:15	08/10/20 02:29	1
M2-6:2 FTS	106		25 - 150	08/06/20 18:15	08/10/20 02:29	1
M2-8:2 FTS	105		25 - 150	08/06/20 18:15	08/10/20 02:29	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1South-50**

**Lab Sample ID: 320-63408-20**

Date Collected: 08/04/20 09:23

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.8		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluoropentanoic acid (PFPeA)	4.5		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		08/06/20 18:15	08/10/20 02:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		08/06/20 18:15	08/10/20 02:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		08/06/20 18:15	08/10/20 02:39	1
6:2 FTS	ND		17		ng/L		08/06/20 18:15	08/10/20 02:39	1
8:2 FTS	ND		17		ng/L		08/06/20 18:15	08/10/20 02:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C5 PFPeA	108		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C2 PFHxA	110		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C4 PFHpA	112		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C4 PFOA	110		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C5 PFNA	112		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C2 PFDA	112		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C2 PFUnA	107		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C2 PFDoA	110		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C2 PFTeDA	110		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C3 PFBS	103		25 - 150	08/06/20 18:15	08/10/20 02:39	1
18O2 PFHxS	107		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C4 PFOS	94		25 - 150	08/06/20 18:15	08/10/20 02:39	1
13C8 FOSA	102		25 - 150	08/06/20 18:15	08/10/20 02:39	1
d3-NMeFOSAA	113		25 - 150	08/06/20 18:15	08/10/20 02:39	1
d5-NEtFOSAA	116		25 - 150	08/06/20 18:15	08/10/20 02:39	1
M2-6:2 FTS	115		25 - 150	08/06/20 18:15	08/10/20 02:39	1
M2-8:2 FTS	120		25 - 150	08/06/20 18:15	08/10/20 02:39	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-3North-50**

**Lab Sample ID: 320-63408-21**

Date Collected: 08/04/20 09:58

Matrix: Water

Date Received: 08/05/20 10:00

**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		08/10/20 13:05	08/11/20 18:59	1
Perfluoropentanoic acid (PFPeA)	6.2		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorohexanoic acid (PFHxA)	4.2		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluoroheptanoic acid (PFHpA)	2.2		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorooctanoic acid (PFOA)	2.6		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorooctanesulfonic acid (PFOS)	2.7		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 18:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 18:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 18:59	1
6:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 18:59	1
8:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 18:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	101		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C5 PFPeA	108		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C2 PFHxA	113		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C4 PFHpA	107		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C4 PFOA	109		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C5 PFNA	111		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C2 PFDA	108		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C2 PFUnA	109		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C2 PFDoA	103		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C2 PFTeDA	92		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C3 PFBS	111		25 - 150	08/10/20 13:05	08/11/20 18:59	1
18O2 PFHxS	109		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C4 PFOS	118		25 - 150	08/10/20 13:05	08/11/20 18:59	1
13C8 FOSA	114		25 - 150	08/10/20 13:05	08/11/20 18:59	1
d3-NMeFOSAA	118		25 - 150	08/10/20 13:05	08/11/20 18:59	1
d5-NEtFOSAA	134		25 - 150	08/10/20 13:05	08/11/20 18:59	1
M2-6:2 FTS	150		25 - 150	08/10/20 13:05	08/11/20 18:59	1
M2-8:2 FTS	144		25 - 150	08/10/20 13:05	08/11/20 18:59	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-3North-75**

**Lab Sample ID: 320-63408-22**

Date Collected: 08/04/20 10:00

Matrix: Water

Date Received: 08/05/20 10:00

**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		08/10/20 13:05	08/11/20 19:08	1
Perfluoropentanoic acid (PFPeA)	6.0		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorohexanoic acid (PFHxA)	3.2		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 19:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 19:08	1
6:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 19:08	1
8:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 19:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	106		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C5 PFPeA	108		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C2 PFHxA	118		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C4 PFHpA	110		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C4 PFOA	108		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C5 PFNA	110		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C2 PFDA	112		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C2 PFUnA	110		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C2 PFDoA	110		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C2 PFTeDA	99		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C3 PFBS	115		25 - 150	08/10/20 13:05	08/11/20 19:08	1
18O2 PFHxS	120		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C4 PFOS	112		25 - 150	08/10/20 13:05	08/11/20 19:08	1
13C8 FOSA	112		25 - 150	08/10/20 13:05	08/11/20 19:08	1
d3-NMeFOSAA	121		25 - 150	08/10/20 13:05	08/11/20 19:08	1
d5-NEtFOSAA	131		25 - 150	08/10/20 13:05	08/11/20 19:08	1
M2-6:2 FTS	126		25 - 150	08/10/20 13:05	08/11/20 19:08	1
M2-8:2 FTS	148		25 - 150	08/10/20 13:05	08/11/20 19:08	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-3Mid Point**

**Lab Sample ID: 320-63408-23**

**Date Collected: 08/04/20 10:03**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.2		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluoropentanoic acid (PFPeA)	5.4		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorohexanoic acid (PFHxA)	2.6		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19		ng/L		08/10/20 13:05	08/11/20 19:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19		ng/L		08/10/20 13:05	08/11/20 19:18	1
6:2 FTS	ND		19		ng/L		08/10/20 13:05	08/11/20 19:18	1
8:2 FTS	ND		19		ng/L		08/10/20 13:05	08/11/20 19:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	104		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C5 PFPeA	105		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C2 PFHxA	112		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C4 PFHpA	107		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C4 PFOA	113		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C5 PFNA	109		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C2 PFDA	112		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C2 PFUnA	108		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C2 PFDoA	113		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C2 PFTeDA	103		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C3 PFBS	114		25 - 150	08/10/20 13:05	08/11/20 19:18	1
18O2 PFHxS	121		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C4 PFOS	116		25 - 150	08/10/20 13:05	08/11/20 19:18	1
13C8 FOSA	109		25 - 150	08/10/20 13:05	08/11/20 19:18	1
d3-NMeFOSAA	119		25 - 150	08/10/20 13:05	08/11/20 19:18	1
d5-NEtFOSAA	137		25 - 150	08/10/20 13:05	08/11/20 19:18	1
M2-6:2 FTS	129		25 - 150	08/10/20 13:05	08/11/20 19:18	1
M2-8:2 FTS	136		25 - 150	08/10/20 13:05	08/11/20 19:18	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-3South-25**

**Lab Sample ID: 320-63408-24**

Date Collected: 08/04/20 10:09

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.2		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluoropentanoic acid (PFPeA)	4.5		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorohexanoic acid (PFHxA)	1.8		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 19:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 19:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 19:27	1
6:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 19:27	1
8:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 19:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	111		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C5 PFPeA	118		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C2 PFHxA	119		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C4 PFHpA	114		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C4 PFOA	114		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C5 PFNA	118		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C2 PFDA	116		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C2 PFUnA	108		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C2 PFDoA	109		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C2 PFTeDA	100		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C3 PFBS	120		25 - 150	08/10/20 13:05	08/11/20 19:27	1
18O2 PFHxS	121		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C4 PFOS	123		25 - 150	08/10/20 13:05	08/11/20 19:27	1
13C8 FOSA	117		25 - 150	08/10/20 13:05	08/11/20 19:27	1
d3-NMeFOSAA	122		25 - 150	08/10/20 13:05	08/11/20 19:27	1
d5-NEtFOSAA	141		25 - 150	08/10/20 13:05	08/11/20 19:27	1
M2-6:2 FTS	134		25 - 150	08/10/20 13:05	08/11/20 19:27	1
M2-8:2 FTS	149		25 - 150	08/10/20 13:05	08/11/20 19:27	1



# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-3South-50**

**Lab Sample ID: 320-63408-25**

**Date Collected: 08/04/20 10:10**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.3		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluoropentanoic acid (PFPeA)	4.1		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9		ng/L		08/10/20 13:05	08/11/20 19:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19		ng/L		08/10/20 13:05	08/11/20 19:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19		ng/L		08/10/20 13:05	08/11/20 19:36	1
6:2 FTS	ND		19		ng/L		08/10/20 13:05	08/11/20 19:36	1
8:2 FTS	ND		19		ng/L		08/10/20 13:05	08/11/20 19:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	106		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C5 PFPeA	107		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C2 PFHxA	113		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C4 PFHpA	112		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C4 PFOA	108		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C5 PFNA	107		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C2 PFDA	111		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C2 PFUnA	114		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C2 PFDoA	111		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C2 PFTeDA	103		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C3 PFBS	115		25 - 150	08/10/20 13:05	08/11/20 19:36	1
18O2 PFHxS	117		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C4 PFOS	111		25 - 150	08/10/20 13:05	08/11/20 19:36	1
13C8 FOSA	112		25 - 150	08/10/20 13:05	08/11/20 19:36	1
d3-NMeFOSAA	127		25 - 150	08/10/20 13:05	08/11/20 19:36	1
d5-NEtFOSAA	136		25 - 150	08/10/20 13:05	08/11/20 19:36	1
M2-6:2 FTS	129		25 - 150	08/10/20 13:05	08/11/20 19:36	1
M2-8:2 FTS	136		25 - 150	08/10/20 13:05	08/11/20 19:36	1



# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-3South-75**

**Lab Sample ID: 320-63408-26**

Date Collected: 08/04/20 10:12

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.7		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluoropentanoic acid (PFPeA)	2.3		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 20:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 20:05	1
6:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 20:05	1
8:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 20:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	112		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C5 PFPeA	116		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C2 PFHxA	118		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C4 PFHpA	110		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C4 PFOA	116		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C5 PFNA	114		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C2 PFDA	115		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C2 PFUnA	118		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C2 PFDoA	111		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C2 PFTeDA	94		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C3 PFBS	119		25 - 150	08/10/20 13:05	08/11/20 20:05	1
18O2 PFHxS	121		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C4 PFOS	118		25 - 150	08/10/20 13:05	08/11/20 20:05	1
13C8 FOSA	118		25 - 150	08/10/20 13:05	08/11/20 20:05	1
d3-NMeFOSAA	132		25 - 150	08/10/20 13:05	08/11/20 20:05	1
d5-NEtFOSAA	139		25 - 150	08/10/20 13:05	08/11/20 20:05	1
M2-6:2 FTS	128		25 - 150	08/10/20 13:05	08/11/20 20:05	1
M2-8:2 FTS	154	*5	25 - 150	08/10/20 13:05	08/11/20 20:05	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-3Post**

**Lab Sample ID: 320-63408-27**

**Date Collected: 08/04/20 10:14**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

**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		08/10/20 13:05	08/11/20 20:14	1
Perfluoropentanoic acid (PFPeA)	2.1		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 20:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 20:14	1
6:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 20:14	1
8:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 20:14	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	112		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C5 PFPeA	116		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C2 PFHxA	120		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C4 PFHpA	113		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C4 PFOA	116		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C5 PFNA	113		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C2 PFDA	113		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C2 PFUnA	109		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C2 PFDoA	106		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C2 PFTeDA	94		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C3 PFBS	119		25 - 150				08/10/20 13:05	08/11/20 20:14	1
18O2 PFHxS	123		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C4 PFOS	114		25 - 150				08/10/20 13:05	08/11/20 20:14	1
13C8 FOSA	113		25 - 150				08/10/20 13:05	08/11/20 20:14	1
d3-NMeFOSAA	124		25 - 150				08/10/20 13:05	08/11/20 20:14	1
d5-NEtFOSAA	136		25 - 150				08/10/20 13:05	08/11/20 20:14	1
M2-6:2 FTS	134		25 - 150				08/10/20 13:05	08/11/20 20:14	1
M2-8:2 FTS	141		25 - 150				08/10/20 13:05	08/11/20 20:14	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1RAW**

**Lab Sample ID: 320-63408-28**

Date Collected: 08/04/20 10:59

Matrix: Water

Date Received: 08/05/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.9		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluoropentanoic acid (PFPeA)	2.8		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorohexanoic acid (PFHxA)	2.3		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorooctanoic acid (PFOA)	2.5		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorobutanesulfonic acid (PFBS)	2.8		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorooctanesulfonic acid (PFOS)	3.2		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 20:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 20:23	1
6:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 20:23	1
8:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 20:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C5 PFPeA	109		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C2 PFHxA	118		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C4 PFHpA	110		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C4 PFOA	114		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C5 PFNA	111		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C2 PFDA	112		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C2 PFUnA	114		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C2 PFDoA	113		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C2 PFTeDA	101		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C3 PFBS	113		25 - 150	08/10/20 13:05	08/11/20 20:23	1
18O2 PFHxS	118		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C4 PFOS	115		25 - 150	08/10/20 13:05	08/11/20 20:23	1
13C8 FOSA	110		25 - 150	08/10/20 13:05	08/11/20 20:23	1
d3-NMeFOSAA	127		25 - 150	08/10/20 13:05	08/11/20 20:23	1
d5-NEtFOSAA	138		25 - 150	08/10/20 13:05	08/11/20 20:23	1
M2-6:2 FTS	131		25 - 150	08/10/20 13:05	08/11/20 20:23	1
M2-8:2 FTS	146		25 - 150	08/10/20 13:05	08/11/20 20:23	1

Eurolins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-2RAW**

**Lab Sample ID: 320-63408-29**

Date Collected: 08/04/20 11:17

Matrix: Water

Date Received: 08/05/20 10:00

**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		08/10/20 13:05	08/11/20 20:33	1
Perfluoropentanoic acid (PFPeA)	4.3		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorohexanoic acid (PFHxA)	2.3		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorooctanoic acid (PFOA)	2.7		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorohexanesulfonic acid (PFHxS)	2.7		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorooctanesulfonic acid (PFOS)	2.2		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 20:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 20:33	1
6:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 20:33	1
8:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 20:33	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	102		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C5 PFPeA	106		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C2 PFHxA	115		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C4 PFHpA	110		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C4 PFOA	112		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C5 PFNA	111		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C2 PFDA	114		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C2 PFUnA	111		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C2 PFDoA	123		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C2 PFTeDA	92		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C3 PFBS	112		25 - 150				08/10/20 13:05	08/11/20 20:33	1
18O2 PFHxS	120		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C4 PFOS	122		25 - 150				08/10/20 13:05	08/11/20 20:33	1
13C8 FOSA	111		25 - 150				08/10/20 13:05	08/11/20 20:33	1
d3-NMeFOSAA	128		25 - 150				08/10/20 13:05	08/11/20 20:33	1
d5-NEtFOSAA	136		25 - 150				08/10/20 13:05	08/11/20 20:33	1
M2-6:2 FTS	136		25 - 150				08/10/20 13:05	08/11/20 20:33	1
M2-8:2 FTS	142		25 - 150				08/10/20 13:05	08/11/20 20:33	1

# Client Sample Results

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-3RAW**

**Lab Sample ID: 320-63408-30**

Date Collected: 08/04/20 10:43

Matrix: Water

Date Received: 08/05/20 10:00

**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		08/10/20 13:05	08/11/20 20:42	1
Perfluoropentanoic acid (PFPeA)	7.5		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorohexanoic acid (PFHxA)	5.5		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluoroheptanoic acid (PFHpA)	3.1		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorooctanoic acid (PFOA)	4.3		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorobutanesulfonic acid (PFBS)	1.9		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorooctanesulfonic acid (PFOS)	8.1		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		08/10/20 13:05	08/11/20 20:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 20:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		08/10/20 13:05	08/11/20 20:42	1
6:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 20:42	1
8:2 FTS	ND		18		ng/L		08/10/20 13:05	08/11/20 20:42	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	97		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C5 PFPeA	101		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C2 PFHxA	114		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C4 PFHpA	110		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C4 PFOA	112		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C5 PFNA	114		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C2 PFDA	115		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C2 PFUnA	108		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C2 PFDoA	108		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C2 PFTeDA	101		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C3 PFBS	110		25 - 150				08/10/20 13:05	08/11/20 20:42	1
18O2 PFHxS	119		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C4 PFOS	113		25 - 150				08/10/20 13:05	08/11/20 20:42	1
13C8 FOSA	113		25 - 150				08/10/20 13:05	08/11/20 20:42	1
d3-NMeFOSAA	123		25 - 150				08/10/20 13:05	08/11/20 20:42	1
d5-NEtFOSAA	131		25 - 150				08/10/20 13:05	08/11/20 20:42	1
M2-6:2 FTS	142		25 - 150				08/10/20 13:05	08/11/20 20:42	1
M2-8:2 FTS	147		25 - 150				08/10/20 13:05	08/11/20 20:42	1

# Isotope Dilution Summary

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

Job ID: 320-63408-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-63408-1	BH20200804-1South-75	103	108	112	106	105	101	100	106
320-63408-2	BH20200804-1POST	101	108	109	99	108	105	101	96
320-63408-3	BH20200804-2North-25	91	97	104	99	102	102	105	93
320-63408-4	BH20200804-2North-50	66	68	74	73	74	78	69	73
320-63408-5	BH20200804-2North-75	100	104	108	103	107	112	106	95
320-63408-6	BH20200804-2 Mid-Point	102	106	107	106	104	105	105	97
320-63408-7	BH20200804-2South-25	106	109	108	104	106	112	103	103
320-63408-8	BH20200804-2South-50	103	106	107	102	101	107	100	106
320-63408-9	BH20200804-2South-75	62	65	67	63	63	64	63	60
320-63408-10	BH20200804-2POST	105	112	110	103	106	112	110	106
320-63408-11	BH20200804-3North-25	117	124	135	131	125	127	131	128
320-63408-12	BH20200804POST-GAC	102	110	111	102	105	104	102	102
320-63408-12 MS	BH20200804POST-GAC	104	108	106	103	106	108	104	100
320-63408-12 MSD	BH20200804POST-GAC	108	111	114	106	107	112	114	110
320-63408-13	BH20200804POST-GAC DUP	109	114	117	112	110	109	108	104
320-63408-14	BH20200804PRE-GAC	97	101	105	105	108	111	109	95
320-63408-15	BH20200804-1North-25	97	105	109	105	105	103	113	113
320-63408-16	BH20200804-1North-50	100	109	114	113	110	110	112	110
320-63408-17	BH20200804-1North-75	104	110	112	108	108	111	114	106
320-63408-18	BH20200804-1 Mid-Point	87	95	102	101	108	96	110	110
320-63408-19	BH20200804-1South-25	86	95	94	95	96	92	99	97
320-63408-20	BH20200804-1South-50	100	108	110	112	110	112	112	107
320-63408-21	BH20200804-3North-50	101	108	113	107	109	111	108	109
320-63408-22	BH20200804-3North-75	106	108	118	110	108	110	112	110
320-63408-23	BH20200804-3Mid Point	104	105	112	107	113	109	112	108
320-63408-24	BH20200804-3South-25	111	118	119	114	114	118	116	108
320-63408-25	BH20200804-3South-50	106	107	113	112	108	107	111	114
320-63408-26	BH20200804-3South-75	112	116	118	110	116	114	115	118
320-63408-27	BH20200804-3Post	112	116	120	113	116	113	113	109
320-63408-28	BH20200804-1RAW	102	109	118	110	114	111	112	114
320-63408-29	BH20200804-2RAW	102	106	115	110	112	111	114	111
320-63408-30	BH20200804-3RAW	97	101	114	110	112	114	115	108
LCS 320-401743/2-A	Lab Control Sample	102	102	105	100	102	106	107	104
LCS 320-402492/2-A	Lab Control Sample	111	115	119	108	114	111	115	109
LCSD 320-402492/3-A	Lab Control Sample Dup	111	116	119	106	110	115	118	112
MB 320-401743/1-A	Method Blank	73	77	77	73	75	79	77	75
MB 320-402492/1-A	Method Blank	111	116	118	114	113	108	114	110

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-63408-1	BH20200804-1South-75	106	89	103	109	102	102	106	117
320-63408-2	BH20200804-1POST	98	86	107	106	102	102	100	110
320-63408-3	BH20200804-2North-25	93	82	98	105	101	98	110	107
320-63408-4	BH20200804-2North-50	76	68	78	76	76	73	73	81
320-63408-5	BH20200804-2North-75	93	87	105	108	103	105	102	104
320-63408-6	BH20200804-2 Mid-Point	90	79	106	110	100	97	97	105
320-63408-7	BH20200804-2South-25	102	95	108	106	105	102	102	115
320-63408-8	BH20200804-2South-50	101	101	103	100	103	98	103	116
320-63408-9	BH20200804-2South-75	56	58	69	67	61	55	65	68

Eurofins TestAmerica, Sacramento



# Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 320-63408-1

Project/Site: Stewart ANGB - Butterhill #336089

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFD <sub>o</sub> A (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFH <sub>x</sub> S (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-63408-10	BH20200804-2POST	115	102	114	110	105	107	113	125
320-63408-11	BH20200804-3North-25	126	112	127	129	126	131	132	145
320-63408-12	BH20200804POST-GAC	98	99	105	109	102	103	106	110
320-63408-12 MS	BH20200804POST-GAC	103	96	103	108	103	100	109	112
320-63408-12 MSD	BH20200804POST-GAC	102	102	116	110	109	107	108	118
320-63408-13	BH20200804POST-GAC DUP	103	102	106	111	111	108	110	117
320-63408-14	BH20200804PRE-GAC	109	97	101	108	104	103	105	113
320-63408-15	BH20200804-1North-25	105	106	107	109	106	103	107	113
320-63408-16	BH20200804-1North-50	111	102	108	114	115	111	111	120
320-63408-17	BH20200804-1North-75	100	104	104	109	108	109	108	121
320-63408-18	BH20200804-1 Mid-Point	104	127	92	96	91	89	99	112
320-63408-19	BH20200804-1South-25	99	102	90	92	83	88	95	102
320-63408-20	BH20200804-1South-50	110	110	103	107	94	102	113	116
320-63408-21	BH20200804-3North-50	103	92	111	109	118	114	118	134
320-63408-22	BH20200804-3North-75	110	99	115	120	112	112	121	131
320-63408-23	BH20200804-3Mid Point	113	103	114	121	116	109	119	137
320-63408-24	BH20200804-3South-25	109	100	120	121	123	117	122	141
320-63408-25	BH20200804-3South-50	111	103	115	117	111	112	127	136
320-63408-26	BH20200804-3South-75	111	94	119	121	118	118	132	139
320-63408-27	BH20200804-3Post	106	94	119	123	114	113	124	136
320-63408-28	BH20200804-1RAW	113	101	113	118	115	110	127	138
320-63408-29	BH20200804-2RAW	123	92	112	120	122	111	128	136
320-63408-30	BH20200804-3RAW	108	101	110	119	113	113	123	131
LCS 320-401743/2-A	Lab Control Sample	105	94	103	99	99	93	107	111
LCS 320-402492/2-A	Lab Control Sample	110	99	115	114	113	113	125	136
LCSD 320-402492/3-A	Lab Control Sample Dup	114	106	119	119	111	113	127	137
MB 320-401743/1-A	Method Blank	77	71	70	73	73	69	80	82
MB 320-402492/1-A	Method Blank	117	95	120	117	118	116	121	141

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)	
		M262FTS (25-150)	M282FTS (25-150)
320-63408-1	BH20200804-1South-75	117	123
320-63408-2	BH20200804-1POST	145	122
320-63408-3	BH20200804-2North-25	121	126
320-63408-4	BH20200804-2North-50	87	90
320-63408-5	BH20200804-2North-75	142	124
320-63408-6	BH20200804-2 Mid-Point	114	125
320-63408-7	BH20200804-2South-25	117	127
320-63408-8	BH20200804-2South-50	108	107
320-63408-9	BH20200804-2South-75	68	71
320-63408-10	BH20200804-2POST	117	129
320-63408-11	BH20200804-3North-25	156 *5	165 *5
320-63408-12	BH20200804POST-GAC	123	121
320-63408-12 MS	BH20200804POST-GAC	114	124
320-63408-12 MSD	BH20200804POST-GAC	121	123
320-63408-13	BH20200804POST-GAC DUP	128	125
320-63408-14	BH20200804PRE-GAC	124	118
320-63408-15	BH20200804-1North-25	126	126
320-63408-16	BH20200804-1North-50	124	126
320-63408-17	BH20200804-1North-75	127	128

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# Isotope Dilution Summary

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

Job ID: 320-63408-1

## 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	M262FTS (25-150)	M282FTS (25-150)
320-63408-18	BH20200804-1 Mid-Point	214 *5	141
320-63408-19	BH20200804-1South-25	106	105
320-63408-20	BH20200804-1South-50	115	120
320-63408-21	BH20200804-3North-50	150	144
320-63408-22	BH20200804-3North-75	126	148
320-63408-23	BH20200804-3Mid Point	129	136
320-63408-24	BH20200804-3South-25	134	149
320-63408-25	BH20200804-3South-50	129	136
320-63408-26	BH20200804-3South-75	128	154 *5
320-63408-27	BH20200804-3Post	134	141
320-63408-28	BH20200804-1RAW	131	146
320-63408-29	BH20200804-2RAW	136	142
320-63408-30	BH20200804-3RAW	142	147
LCS 320-401743/2-A	Lab Control Sample	112	127
LCS 320-402492/2-A	Lab Control Sample	128	131
LCSD 320-402492/3-A	Lab Control Sample Dup	131	142
MB 320-401743/1-A	Method Blank	83	93
MB 320-402492/1-A	Method Blank	130	140

#### Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS

# QC Sample Results

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

Job ID: 320-63408-1

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

**Lab Sample ID: MB 320-401743/1-A**  
**Matrix: Water**  
**Analysis Batch: 402145**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 401743**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		08/06/20 18:15	08/08/20 14:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20		ng/L		08/06/20 18:15	08/08/20 14:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20		ng/L		08/06/20 18:15	08/08/20 14:04	1
6:2 FTS	ND		20		ng/L		08/06/20 18:15	08/08/20 14:04	1
8:2 FTS	ND		20		ng/L		08/06/20 18:15	08/08/20 14:04	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	73		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C5 PFPeA	77		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C2 PFHxA	77		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C4 PFHpA	73		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C4 PFOA	75		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C5 PFNA	79		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C2 PFDA	77		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C2 PFUnA	75		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C2 PFDoA	77		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C2 PFTeDA	71		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C3 PFBS	70		25 - 150	08/06/20 18:15	08/08/20 14:04	1
18O2 PFHxS	73		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C4 PFOS	73		25 - 150	08/06/20 18:15	08/08/20 14:04	1
13C8 FOSA	69		25 - 150	08/06/20 18:15	08/08/20 14:04	1
d3-NMeFOSAA	80		25 - 150	08/06/20 18:15	08/08/20 14:04	1
d5-NEtFOSAA	82		25 - 150	08/06/20 18:15	08/08/20 14:04	1
M2-6:2 FTS	83		25 - 150	08/06/20 18:15	08/08/20 14:04	1
M2-8:2 FTS	93		25 - 150	08/06/20 18:15	08/08/20 14:04	1

# QC Sample Results

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

Job ID: 320-63408-1

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

**Lab Sample ID: LCS 320-401743/2-A**  
**Matrix: Water**  
**Analysis Batch: 402145**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 401743**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	45.6		ng/L		114	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	40.9		ng/L		102	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	38.0		ng/L		95	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	42.6		ng/L		106	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	43.4		ng/L		108	70 - 130
Perfluorononanoic acid (PFNA)	40.1	42.3		ng/L		106	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	39.5		ng/L		99	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	42.2		ng/L		105	68 - 128
Perfluorododecanoic acid (PFDoA)	40.2	41.6		ng/L		103	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	40.5		ng/L		101	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	43.0		ng/L		107	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	36.6		ng/L		103	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.1		ng/L		97	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.7		ng/L		107	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	37.8		ng/L		102	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	38.5		ng/L		100	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	43.5		ng/L		109	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	39.9		ng/L		100	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.5		ng/L		94	76 - 136
6:2 FTS	37.9	37.9		ng/L		100	59 - 175
8:2 FTS	38.3	41.6		ng/L		109	75 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	102		25 - 150
13C5 PFPeA	102		25 - 150
13C2 PFHxA	105		25 - 150
13C4 PFHpA	100		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	106		25 - 150
13C2 PFDA	107		25 - 150
13C2 PFUnA	104		25 - 150
13C2 PFDoA	105		25 - 150
13C2 PFTeDA	94		25 - 150
13C3 PFBS	103		25 - 150
18O2 PFHxS	99		25 - 150
13C4 PFOS	99		25 - 150
13C8 FOSA	93		25 - 150
d3-NMeFOSAA	107		25 - 150
d5-NEtFOSAA	111		25 - 150

Eurofins TestAmerica, Sacramento

# QC Sample Results

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

Job ID: 320-63408-1

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

**Lab Sample ID: LCS 320-401743/2-A**  
**Matrix: Water**  
**Analysis Batch: 402145**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 401743**

<i>Isotope Dilution</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
M2-6:2 FTS	112		25 - 150
M2-8:2 FTS	127		25 - 150

**Lab Sample ID: 320-63408-12 MS**  
**Matrix: Water**  
**Analysis Batch: 402145**

**Client Sample ID: BH20200804POST-GAC**  
**Prep Type: Total/NA**  
**Prep Batch: 401743**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS MS</i>		<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
				<i>Result</i>	<i>Qualifier</i>				
Perfluorobutanoic acid (PFBA)	5.8		34.6	40.1		ng/L		99	76 - 136
Perfluoropentanoic acid (PFPeA)	2.2		34.6	34.3		ng/L		93	71 - 131
Perfluorohexanoic acid (PFHxA)	ND		34.6	33.4		ng/L		95	73 - 133
Perfluoroheptanoic acid (PFHpA)	ND		34.6	35.7		ng/L		103	72 - 132
Perfluorooctanoic acid (PFOA)	ND		34.6	34.1		ng/L		99	70 - 130
Perfluorononanoic acid (PFNA)	ND		34.6	36.5		ng/L		105	75 - 135
Perfluorodecanoic acid (PFDA)	ND		34.6	36.4		ng/L		105	76 - 136
Perfluoroundecanoic acid (PFUnA)	ND		34.6	36.7		ng/L		106	68 - 128
Perfluorododecanoic acid (PFDoA)	ND		34.8	33.3		ng/L		96	71 - 131
Perfluorotridecanoic acid (PFTriA)	ND		34.6	33.5		ng/L		97	71 - 131
Perfluorotetradecanoic acid (PFTeA)	ND		34.6	36.4		ng/L		105	70 - 130
Perfluorobutanesulfonic acid (PFBS)	ND		30.5	31.0		ng/L		101	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	ND		31.4	28.6		ng/L		90	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	ND		32.9	33.3		ng/L		101	76 - 136
Perfluorooctanesulfonic acid (PFOS)	ND		32.1	32.0		ng/L		100	70 - 130
Perfluorodecanesulfonic acid (PFDS)	ND		33.3	31.2		ng/L		94	71 - 131
Perfluorooctanesulfonamide (FOSA)	ND		34.6	36.5		ng/L		106	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		34.6	34.1		ng/L		99	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		34.6	32.4		ng/L		94	76 - 136
6:2 FTS	ND		32.8	36.8		ng/L		112	59 - 175
8:2 FTS	ND		33.1	34.0		ng/L		103	75 - 135

<i>Isotope Dilution</i>	<i>MS MS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C4 PFBA	104		25 - 150
13C5 PFPeA	108		25 - 150
13C2 PFHxA	106		25 - 150
13C4 PFHpA	103		25 - 150
13C4 PFOA	106		25 - 150
13C5 PFNA	108		25 - 150
13C2 PFDA	104		25 - 150
13C2 PFUnA	100		25 - 150
13C2 PFDoA	103		25 - 150

Eurofins TestAmerica, Sacramento

# QC Sample Results

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

Job ID: 320-63408-1

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

**Lab Sample ID: 320-63408-12 MS**  
**Matrix: Water**  
**Analysis Batch: 402145**

**Client Sample ID: BH20200804POST-GAC**  
**Prep Type: Total/NA**  
**Prep Batch: 401743**

<i>Isotope Dilution</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
13C2 PFTeDA	96		25 - 150
13C3 PFBS	103		25 - 150
18O2 PFHxS	108		25 - 150
13C4 PFOS	103		25 - 150
13C8 FOSA	100		25 - 150
d3-NMeFOSAA	109		25 - 150
d5-NEtFOSAA	112		25 - 150
M2-6:2 FTS	114		25 - 150
M2-8:2 FTS	124		25 - 150

**Lab Sample ID: 320-63408-12 MSD**  
**Matrix: Water**  
**Analysis Batch: 402145**

**Client Sample ID: BH20200804POST-GAC**  
**Prep Type: Total/NA**  
**Prep Batch: 401743**

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
Perfluorobutanoic acid (PFBA)	5.8		34.7	41.1		ng/L		102	76 - 136	2	30
Perfluoropentanoic acid (PFPeA)	2.2		34.7	35.5		ng/L		96	71 - 131	4	30
Perfluorohexanoic acid (PFHxA)	ND		34.7	33.0		ng/L		93	73 - 133	1	30
Perfluoroheptanoic acid (PFHpA)	ND		34.7	36.0		ng/L		103	72 - 132	1	30
Perfluorooctanoic acid (PFOA)	ND		34.8	35.8		ng/L		103	70 - 130	5	30
Perfluorononanoic acid (PFNA)	ND		34.8	35.6		ng/L		102	75 - 135	2	30
Perfluorodecanoic acid (PFDA)	ND		34.7	33.7		ng/L		97	76 - 136	8	30
Perfluoroundecanoic acid (PFUnA)	ND		34.8	33.8		ng/L		97	68 - 128	8	30
Perfluorododecanoic acid (PFDoA)	ND		35.0	37.7		ng/L		108	71 - 131	13	30
Perfluorotridecanoic acid (PFTriA)	ND		34.7	37.4		ng/L		108	71 - 131	11	30
Perfluorotetradecanoic acid (PFTeA)	ND		34.8	36.0		ng/L		104	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	ND		30.7	30.3		ng/L		99	67 - 127	2	30
Perfluorohexanesulfonic acid (PFHxS)	ND		31.6	30.5		ng/L		96	59 - 119	7	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		33.1	32.8		ng/L		99	76 - 136	1	30
Perfluorooctanesulfonic acid (PFOS)	ND		32.2	31.1		ng/L		97	70 - 130	3	30
Perfluorodecanesulfonic acid (PFDS)	ND		33.5	30.9		ng/L		92	71 - 131	1	30
Perfluorooctanesulfonamide (FOSA)	ND		34.7	34.8		ng/L		100	73 - 133	5	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		34.7	34.9		ng/L		101	76 - 136	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		34.7	33.0		ng/L		95	76 - 136	2	30
6:2 FTS	ND		32.9	32.5		ng/L		99	59 - 175	13	30
8:2 FTS	ND		33.3	35.4		ng/L		106	75 - 135	4	30

<i>Isotope Dilution</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
13C4 PFBA	108		25 - 150
13C5 PFPeA	111		25 - 150

# QC Sample Results

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

Job ID: 320-63408-1

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

**Lab Sample ID: 320-63408-12 MSD**  
**Matrix: Water**  
**Analysis Batch: 402145**

**Client Sample ID: BH20200804POST-GAC**  
**Prep Type: Total/NA**  
**Prep Batch: 401743**

<i>Isotope Dilution</i>	<i>MSD %Recovery</i>	<i>MSD Qualifier</i>	<i>Limits</i>
13C2 PFHxA	114		25 - 150
13C4 PFHpA	106		25 - 150
13C4 PFOA	107		25 - 150
13C5 PFNA	112		25 - 150
13C2 PFDA	114		25 - 150
13C2 PFUnA	110		25 - 150
13C2 PFDoA	102		25 - 150
13C2 PFTeDA	102		25 - 150
13C3 PFBS	116		25 - 150
18O2 PFHxS	110		25 - 150
13C4 PFOS	109		25 - 150
13C8 FOSA	107		25 - 150
d3-NMeFOSAA	108		25 - 150
d5-NEtFOSAA	118		25 - 150
M2-6:2 FTS	121		25 - 150
M2-8:2 FTS	123		25 - 150

**Lab Sample ID: MB 320-402492/1-A**  
**Matrix: Water**  
**Analysis Batch: 402812**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 402492**

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorobutanoic acid (PFBA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		08/10/20 13:05	08/11/20 18:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20		ng/L		08/10/20 13:05	08/11/20 18:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20		ng/L		08/10/20 13:05	08/11/20 18:12	1
6:2 FTS	ND		20		ng/L		08/10/20 13:05	08/11/20 18:12	1
8:2 FTS	ND		20		ng/L		08/10/20 13:05	08/11/20 18:12	1
<i>Isotope Dilution</i>	<i>MB %Recovery</i>	<i>MB Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	111		25 - 150				08/10/20 13:05	08/11/20 18:12	1
13C5 PFPeA	116		25 - 150				08/10/20 13:05	08/11/20 18:12	1

Eurofins TestAmerica, Sacramento

# QC Sample Results

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

Job ID: 320-63408-1

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

**Lab Sample ID: MB 320-402492/1-A**  
**Matrix: Water**  
**Analysis Batch: 402812**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 402492**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	118		25 - 150	08/10/20 13:05	08/11/20 18:12	1
13C4 PFHpA	114		25 - 150	08/10/20 13:05	08/11/20 18:12	1
13C4 PFOA	113		25 - 150	08/10/20 13:05	08/11/20 18:12	1
13C5 PFNA	108		25 - 150	08/10/20 13:05	08/11/20 18:12	1
13C2 PFDA	114		25 - 150	08/10/20 13:05	08/11/20 18:12	1
13C2 PFUnA	110		25 - 150	08/10/20 13:05	08/11/20 18:12	1
13C2 PFDoA	117		25 - 150	08/10/20 13:05	08/11/20 18:12	1
13C2 PFTeDA	95		25 - 150	08/10/20 13:05	08/11/20 18:12	1
13C3 PFBS	120		25 - 150	08/10/20 13:05	08/11/20 18:12	1
18O2 PFHxS	117		25 - 150	08/10/20 13:05	08/11/20 18:12	1
13C4 PFOS	118		25 - 150	08/10/20 13:05	08/11/20 18:12	1
13C8 FOSA	116		25 - 150	08/10/20 13:05	08/11/20 18:12	1
d3-NMeFOSAA	121		25 - 150	08/10/20 13:05	08/11/20 18:12	1
d5-NEtFOSAA	141		25 - 150	08/10/20 13:05	08/11/20 18:12	1
M2-6:2 FTS	130		25 - 150	08/10/20 13:05	08/11/20 18:12	1
M2-8:2 FTS	140		25 - 150	08/10/20 13:05	08/11/20 18:12	1

**Lab Sample ID: LCS 320-402492/2-A**  
**Matrix: Water**  
**Analysis Batch: 402812**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 402492**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	42.6		ng/L		107	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	39.9		ng/L		100	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	39.8		ng/L		100	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	44.7		ng/L		112	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	41.3		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	40.1	47.5		ng/L		119	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	41.3		ng/L		103	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	43.9		ng/L		110	68 - 128
Perfluorododecanoic acid (PFDoA)	40.2	40.8		ng/L		101	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	42.2		ng/L		105	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	39.4		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	36.1		ng/L		102	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.9		ng/L		93	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.3		ng/L		108	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	38.8		ng/L		105	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	39.8		ng/L		103	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	41.2		ng/L		103	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.3		ng/L		101	76 - 136

Eurofins TestAmerica, Sacramento



# QC Sample Results

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

Job ID: 320-63408-1

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

**Lab Sample ID: LCS 320-402492/2-A**  
**Matrix: Water**  
**Analysis Batch: 402812**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 402492**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-ethylperfluorooctanesulfonami doacetic acid (NETFOSAA)	40.0	38.9		ng/L		97	76 - 136
6:2 FTS	37.9	42.0		ng/L		111	59 - 175
8:2 FTS	38.3	42.6		ng/L		111	75 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	111		25 - 150
13C5 PFPeA	115		25 - 150
13C2 PFHxA	119		25 - 150
13C4 PFHpA	108		25 - 150
13C4 PFOA	114		25 - 150
13C5 PFNA	111		25 - 150
13C2 PFDA	115		25 - 150
13C2 PFUnA	109		25 - 150
13C2 PFDoA	110		25 - 150
13C2 PFTeDA	99		25 - 150
13C3 PFBS	115		25 - 150
18O2 PFHxS	114		25 - 150
13C4 PFOS	113		25 - 150
13C8 FOSA	113		25 - 150
d3-NMeFOSAA	125		25 - 150
d5-NEtFOSAA	136		25 - 150
M2-6:2 FTS	128		25 - 150
M2-8:2 FTS	131		25 - 150

**Lab Sample ID: LCSD 320-402492/3-A**  
**Matrix: Water**  
**Analysis Batch: 402812**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 402492**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Perfluorobutanoic acid (PFBA)	40.0	43.5		ng/L		109	76 - 136	2	30
Perfluoropentanoic acid (PFPeA)	40.0	37.2		ng/L		93	71 - 131	7	30
Perfluorohexanoic acid (PFHxA)	40.0	38.4		ng/L		96	73 - 133	4	30
Perfluoroheptanoic acid (PFHpA)	40.0	45.6		ng/L		114	72 - 132	2	30
Perfluorooctanoic acid (PFOA)	40.0	42.0		ng/L		105	70 - 130	2	30
Perfluorononanoic acid (PFNA)	40.1	43.8		ng/L		109	75 - 135	8	30
Perfluorodecanoic acid (PFDA)	40.0	40.9		ng/L		102	76 - 136	1	30
Perfluoroundecanoic acid (PFUnA)	40.0	39.3		ng/L		98	68 - 128	11	30
Perfluorododecanoic acid (PFDoA)	40.2	40.2		ng/L		100	71 - 131	2	30
Perfluorotridecanoic acid (PFTriA)	40.0	40.3		ng/L		101	71 - 131	4	30
Perfluorotetradecanoic acid (PFTeA)	40.0	37.8		ng/L		94	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	35.4	37.4		ng/L		106	67 - 127	4	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.1		ng/L		88	59 - 119	5	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	42.1		ng/L		110	76 - 136	2	30

Eurofins TestAmerica, Sacramento

# QC Sample Results

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

Job ID: 320-63408-1

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

**Lab Sample ID: LCSD 320-402492/3-A**  
**Matrix: Water**  
**Analysis Batch: 402812**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 402492**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	37.1	39.3		ng/L		106	70 - 130	1	30
Perfluorodecanesulfonic acid (PFDS)	38.6	41.3		ng/L		107	71 - 131	3	30
Perfluorooctanesulfonamide (FOSA)	40.0	43.5		ng/L		109	73 - 133	5	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	41.1		ng/L		103	76 - 136	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.6		ng/L		101	76 - 136	4	30
6:2 FTS	37.9	41.4		ng/L		109	59 - 175	1	30
8:2 FTS	38.3	39.7		ng/L		104	75 - 135	7	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	111		25 - 150
13C5 PFPeA	116		25 - 150
13C2 PFHxA	119		25 - 150
13C4 PFHpA	106		25 - 150
13C4 PFOA	110		25 - 150
13C5 PFNA	115		25 - 150
13C2 PFDA	118		25 - 150
13C2 PFUnA	112		25 - 150
13C2 PFDoA	114		25 - 150
13C2 PFTeDA	106		25 - 150
13C3 PFBS	119		25 - 150
18O2 PFHxS	119		25 - 150
13C4 PFOS	111		25 - 150
13C8 FOSA	113		25 - 150
d3-NMeFOSAA	127		25 - 150
d5-NEtFOSAA	137		25 - 150
M2-6:2 FTS	131		25 - 150
M2-8:2 FTS	142		25 - 150

# QC Association Summary

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

Job ID: 320-63408-1

## LCMS

### Prep Batch: 401743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-63408-1	BH20200804-1South-75	Total/NA	Water	3535	
320-63408-2	BH20200804-1POST	Total/NA	Water	3535	
320-63408-3	BH20200804-2North-25	Total/NA	Water	3535	
320-63408-4	BH20200804-2North-50	Total/NA	Water	3535	
320-63408-5	BH20200804-2North-75	Total/NA	Water	3535	
320-63408-6	BH20200804-2 Mid-Point	Total/NA	Water	3535	
320-63408-7	BH20200804-2South-25	Total/NA	Water	3535	
320-63408-8	BH20200804-2South-50	Total/NA	Water	3535	
320-63408-9	BH20200804-2South-75	Total/NA	Water	3535	
320-63408-10	BH20200804-2POST	Total/NA	Water	3535	
320-63408-11	BH20200804-3North-25	Total/NA	Water	3535	
320-63408-12	BH20200804POST-GAC	Total/NA	Water	3535	
320-63408-13	BH20200804POST-GAC DUP	Total/NA	Water	3535	
320-63408-14	BH20200804PRE-GAC	Total/NA	Water	3535	
320-63408-15	BH20200804-1North-25	Total/NA	Water	3535	
320-63408-16	BH20200804-1North-50	Total/NA	Water	3535	
320-63408-17	BH20200804-1North-75	Total/NA	Water	3535	
320-63408-18	BH20200804-1 Mid-Point	Total/NA	Water	3535	
320-63408-19	BH20200804-1South-25	Total/NA	Water	3535	
320-63408-20	BH20200804-1South-50	Total/NA	Water	3535	
MB 320-401743/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-401743/2-A	Lab Control Sample	Total/NA	Water	3535	
320-63408-12 MS	BH20200804POST-GAC	Total/NA	Water	3535	
320-63408-12 MSD	BH20200804POST-GAC	Total/NA	Water	3535	

### Analysis Batch: 402145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-63408-1	BH20200804-1South-75	Total/NA	Water	537 (modified)	401743
320-63408-2	BH20200804-1POST	Total/NA	Water	537 (modified)	401743
320-63408-3	BH20200804-2North-25	Total/NA	Water	537 (modified)	401743
320-63408-4	BH20200804-2North-50	Total/NA	Water	537 (modified)	401743
320-63408-5	BH20200804-2North-75	Total/NA	Water	537 (modified)	401743
320-63408-6	BH20200804-2 Mid-Point	Total/NA	Water	537 (modified)	401743
320-63408-7	BH20200804-2South-25	Total/NA	Water	537 (modified)	401743
320-63408-8	BH20200804-2South-50	Total/NA	Water	537 (modified)	401743
320-63408-9	BH20200804-2South-75	Total/NA	Water	537 (modified)	401743
320-63408-10	BH20200804-2POST	Total/NA	Water	537 (modified)	401743
320-63408-11	BH20200804-3North-25	Total/NA	Water	537 (modified)	401743
320-63408-12	BH20200804POST-GAC	Total/NA	Water	537 (modified)	401743
320-63408-13	BH20200804POST-GAC DUP	Total/NA	Water	537 (modified)	401743
320-63408-14	BH20200804PRE-GAC	Total/NA	Water	537 (modified)	401743
320-63408-15	BH20200804-1North-25	Total/NA	Water	537 (modified)	401743
320-63408-16	BH20200804-1North-50	Total/NA	Water	537 (modified)	401743
320-63408-17	BH20200804-1North-75	Total/NA	Water	537 (modified)	401743
MB 320-401743/1-A	Method Blank	Total/NA	Water	537 (modified)	401743
LCS 320-401743/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	401743
320-63408-12 MS	BH20200804POST-GAC	Total/NA	Water	537 (modified)	401743
320-63408-12 MSD	BH20200804POST-GAC	Total/NA	Water	537 (modified)	401743

# QC Association Summary

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

Job ID: 320-63408-1

## LCMS

### Analysis Batch: 402299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-63408-18	BH20200804-1 Mid-Point	Total/NA	Water	537 (modified)	401743
320-63408-19	BH20200804-1South-25	Total/NA	Water	537 (modified)	401743
320-63408-20	BH20200804-1South-50	Total/NA	Water	537 (modified)	401743

### Prep Batch: 402492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-63408-21	BH20200804-3North-50	Total/NA	Water	3535	
320-63408-22	BH20200804-3North-75	Total/NA	Water	3535	
320-63408-23	BH20200804-3Mid Point	Total/NA	Water	3535	
320-63408-24	BH20200804-3South-25	Total/NA	Water	3535	
320-63408-25	BH20200804-3South-50	Total/NA	Water	3535	
320-63408-26	BH20200804-3South-75	Total/NA	Water	3535	
320-63408-27	BH20200804-3Post	Total/NA	Water	3535	
320-63408-28	BH20200804-1RAW	Total/NA	Water	3535	
320-63408-29	BH20200804-2RAW	Total/NA	Water	3535	
320-63408-30	BH20200804-3RAW	Total/NA	Water	3535	
MB 320-402492/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-402492/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-402492/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 402812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-63408-21	BH20200804-3North-50	Total/NA	Water	537 (modified)	402492
320-63408-22	BH20200804-3North-75	Total/NA	Water	537 (modified)	402492
320-63408-23	BH20200804-3Mid Point	Total/NA	Water	537 (modified)	402492
320-63408-24	BH20200804-3South-25	Total/NA	Water	537 (modified)	402492
320-63408-25	BH20200804-3South-50	Total/NA	Water	537 (modified)	402492
320-63408-26	BH20200804-3South-75	Total/NA	Water	537 (modified)	402492
320-63408-27	BH20200804-3Post	Total/NA	Water	537 (modified)	402492
320-63408-28	BH20200804-1RAW	Total/NA	Water	537 (modified)	402492
320-63408-29	BH20200804-2RAW	Total/NA	Water	537 (modified)	402492
320-63408-30	BH20200804-3RAW	Total/NA	Water	537 (modified)	402492
MB 320-402492/1-A	Method Blank	Total/NA	Water	537 (modified)	402492
LCS 320-402492/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	402492
LCSD 320-402492/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	402492

# Lab Chronicle

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1South-75**

**Lab Sample ID: 320-63408-1**

Date Collected: 08/04/20 09:24

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			284.3 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 14:23	A1C	TAL SAC

**Client Sample ID: BH20200804-1POST**

**Lab Sample ID: 320-63408-2**

Date Collected: 08/04/20 09:26

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			279.3 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 14:32	A1C	TAL SAC

**Client Sample ID: BH20200804-2North-25**

**Lab Sample ID: 320-63408-3**

Date Collected: 08/04/20 09:34

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			268.1 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 14:42	A1C	TAL SAC

**Client Sample ID: BH20200804-2North-50**

**Lab Sample ID: 320-63408-4**

Date Collected: 08/04/20 09:38

Matrix: Water

Date Received: 08/05/20 10:00

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 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 14:51	A1C	TAL SAC

**Client Sample ID: BH20200804-2North-75**

**Lab Sample ID: 320-63408-5**

Date Collected: 08/04/20 09:40

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			276.6 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 15:00	A1C	TAL SAC

**Client Sample ID: BH20200804-2 Mid-Point**

**Lab Sample ID: 320-63408-6**

Date Collected: 08/04/20 09:43

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			282.9 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 15:10	A1C	TAL SAC

# Lab Chronicle

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-2South-25**

**Lab Sample ID: 320-63408-7**

**Date Collected: 08/04/20 09:45**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			290 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 15:19	A1C	TAL SAC

**Client Sample ID: BH20200804-2South-50**

**Lab Sample ID: 320-63408-8**

**Date Collected: 08/04/20 09:48**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			284.6 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 15:29	A1C	TAL SAC

**Client Sample ID: BH20200804-2South-75**

**Lab Sample ID: 320-63408-9**

**Date Collected: 08/04/20 09:50**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

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	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 15:57	A1C	TAL SAC

**Client Sample ID: BH20200804-2POST**

**Lab Sample ID: 320-63408-10**

**Date Collected: 08/04/20 09:53**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			290.3 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 16:06	A1C	TAL SAC

**Client Sample ID: BH20200804-3North-25**

**Lab Sample ID: 320-63408-11**

**Date Collected: 08/04/20 09:57**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			280.2 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 16:16	A1C	TAL SAC

**Client Sample ID: BH20200804POST-GAC**

**Lab Sample ID: 320-63408-12**

**Date Collected: 08/04/20 08:49**

**Matrix: Water**

**Date Received: 08/05/20 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			289.3 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 16:25	A1C	TAL SAC

# Lab Chronicle

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

Job ID: 320-63408-1

## Client Sample ID: BH20200804POST-GAC DUP

Lab Sample ID: 320-63408-13

Date Collected: 08/04/20 08:51

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			291.5 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 16:53	A1C	TAL SAC

## Client Sample ID: BH20200804PRE-GAC

Lab Sample ID: 320-63408-14

Date Collected: 08/04/20 09:01

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			291.3 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 17:03	A1C	TAL SAC

## Client Sample ID: BH20200804-1North-25

Lab Sample ID: 320-63408-15

Date Collected: 08/04/20 09:11

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			270.2 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 17:12	A1C	TAL SAC

## Client Sample ID: BH20200804-1North-50

Lab Sample ID: 320-63408-16

Date Collected: 08/04/20 09:13

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			291.2 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 17:22	A1C	TAL SAC

## Client Sample ID: BH20200804-1North-75

Lab Sample ID: 320-63408-17

Date Collected: 08/04/20 09:15

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			280.5 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402145	08/08/20 17:50	A1C	TAL SAC

## Client Sample ID: BH20200804-1 Mid-Point

Lab Sample ID: 320-63408-18

Date Collected: 08/04/20 09:17

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			289.7 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402299	08/10/20 02:20	S1M	TAL SAC



# Lab Chronicle

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-1South-25**

**Lab Sample ID: 320-63408-19**

Date Collected: 08/04/20 09:21

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			280.6 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402299	08/10/20 02:29	S1M	TAL SAC

**Client Sample ID: BH20200804-1South-50**

**Lab Sample ID: 320-63408-20**

Date Collected: 08/04/20 09:23

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			290 mL	10.00 mL	401743	08/06/20 18:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			402299	08/10/20 02:39	S1M	TAL SAC

**Client Sample ID: BH20200804-3North-50**

**Lab Sample ID: 320-63408-21**

Date Collected: 08/04/20 09:58

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			272 mL	10.0 mL	402492	08/10/20 13:05	EH	TAL SAC
Total/NA	Analysis	537 (modified)		1			402812	08/11/20 18:59	RS1	TAL SAC

**Client Sample ID: BH20200804-3North-75**

**Lab Sample ID: 320-63408-22**

Date Collected: 08/04/20 10:00

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.2 mL	10.0 mL	402492	08/10/20 13:05	EH	TAL SAC
Total/NA	Analysis	537 (modified)		1			402812	08/11/20 19:08	RS1	TAL SAC

**Client Sample ID: BH20200804-3Mid Point**

**Lab Sample ID: 320-63408-23**

Date Collected: 08/04/20 10:03

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			268.5 mL	10.0 mL	402492	08/10/20 13:05	EH	TAL SAC
Total/NA	Analysis	537 (modified)		1			402812	08/11/20 19:18	RS1	TAL SAC

**Client Sample ID: BH20200804-3South-25**

**Lab Sample ID: 320-63408-24**

Date Collected: 08/04/20 10:09

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			274.9 mL	10.0 mL	402492	08/10/20 13:05	EH	TAL SAC
Total/NA	Analysis	537 (modified)		1			402812	08/11/20 19:27	RS1	TAL SAC

# Lab Chronicle

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

Job ID: 320-63408-1

**Client Sample ID: BH20200804-3South-50**

**Lab Sample ID: 320-63408-25**

Date Collected: 08/04/20 10:10

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			266.4 mL	10.0 mL	402492	08/10/20 13:05	EH	TAL SAC
Total/NA	Analysis	537 (modified)		1			402812	08/11/20 19:36	RS1	TAL SAC

**Client Sample ID: BH20200804-3South-75**

**Lab Sample ID: 320-63408-26**

Date Collected: 08/04/20 10:12

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			272 mL	10.0 mL	402492	08/10/20 13:05	EH	TAL SAC
Total/NA	Analysis	537 (modified)		1			402812	08/11/20 20:05	RS1	TAL SAC

**Client Sample ID: BH20200804-3Post**

**Lab Sample ID: 320-63408-27**

Date Collected: 08/04/20 10:14

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.7 mL	10.0 mL	402492	08/10/20 13:05	EH	TAL SAC
Total/NA	Analysis	537 (modified)		1			402812	08/11/20 20:14	RS1	TAL SAC

**Client Sample ID: BH20200804-1RAW**

**Lab Sample ID: 320-63408-28**

Date Collected: 08/04/20 10:59

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			284.2 mL	10.0 mL	402492	08/10/20 13:05	EH	TAL SAC
Total/NA	Analysis	537 (modified)		1			402812	08/11/20 20:23	RS1	TAL SAC

**Client Sample ID: BH20200804-2RAW**

**Lab Sample ID: 320-63408-29**

Date Collected: 08/04/20 11:17

Matrix: Water

Date Received: 08/05/20 10:00

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	402492	08/10/20 13:05	EH	TAL SAC
Total/NA	Analysis	537 (modified)		1			402812	08/11/20 20:33	RS1	TAL SAC

**Client Sample ID: BH20200804-3RAW**

**Lab Sample ID: 320-63408-30**

Date Collected: 08/04/20 10:43

Matrix: Water

Date Received: 08/05/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			279.4 mL	10.0 mL	402492	08/10/20 13:05	EH	TAL SAC
Total/NA	Analysis	537 (modified)		1			402812	08/11/20 20:42	RS1	TAL SAC

**Laboratory References:**

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

Eurofins TestAmerica, Sacramento

# Accreditation/Certification Summary

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

Job ID: 320-63408-1

## 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	04-01-21

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)

# Method Summary

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

Job ID: 320-63408-1

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.  
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-63408-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-63408-1	BH20200804-1South-75	Water	08/04/20 09:24	08/05/20 10:00	
320-63408-2	BH20200804-1POST	Water	08/04/20 09:26	08/05/20 10:00	
320-63408-3	BH20200804-2North-25	Water	08/04/20 09:34	08/05/20 10:00	
320-63408-4	BH20200804-2North-50	Water	08/04/20 09:38	08/05/20 10:00	
320-63408-5	BH20200804-2North-75	Water	08/04/20 09:40	08/05/20 10:00	
320-63408-6	BH20200804-2 Mid-Point	Water	08/04/20 09:43	08/05/20 10:00	
320-63408-7	BH20200804-2South-25	Water	08/04/20 09:45	08/05/20 10:00	
320-63408-8	BH20200804-2South-50	Water	08/04/20 09:48	08/05/20 10:00	
320-63408-9	BH20200804-2South-75	Water	08/04/20 09:50	08/05/20 10:00	
320-63408-10	BH20200804-2POST	Water	08/04/20 09:53	08/05/20 10:00	
320-63408-11	BH20200804-3North-25	Water	08/04/20 09:57	08/05/20 10:00	
320-63408-12	BH20200804POST-GAC	Water	08/04/20 08:49	08/05/20 10:00	
320-63408-13	BH20200804POST-GAC DUP	Water	08/04/20 08:51	08/05/20 10:00	
320-63408-14	BH20200804PRE-GAC	Water	08/04/20 09:01	08/05/20 10:00	
320-63408-15	BH20200804-1North-25	Water	08/04/20 09:11	08/05/20 10:00	
320-63408-16	BH20200804-1North-50	Water	08/04/20 09:13	08/05/20 10:00	
320-63408-17	BH20200804-1North-75	Water	08/04/20 09:15	08/05/20 10:00	
320-63408-18	BH20200804-1 Mid-Point	Water	08/04/20 09:17	08/05/20 10:00	
320-63408-19	BH20200804-1South-25	Water	08/04/20 09:21	08/05/20 10:00	
320-63408-20	BH20200804-1South-50	Water	08/04/20 09:23	08/05/20 10:00	
320-63408-21	BH20200804-3North-50	Water	08/04/20 09:58	08/05/20 10:00	
320-63408-22	BH20200804-3North-75	Water	08/04/20 10:00	08/05/20 10:00	
320-63408-23	BH20200804-3Mid Point	Water	08/04/20 10:03	08/05/20 10:00	
320-63408-24	BH20200804-3South-25	Water	08/04/20 10:09	08/05/20 10:00	
320-63408-25	BH20200804-3South-50	Water	08/04/20 10:10	08/05/20 10:00	
320-63408-26	BH20200804-3South-75	Water	08/04/20 10:12	08/05/20 10:00	
320-63408-27	BH20200804-3Post	Water	08/04/20 10:14	08/05/20 10:00	
320-63408-28	BH20200804-1RAW	Water	08/04/20 10:59	08/05/20 10:00	
320-63408-29	BH20200804-2RAW	Water	08/04/20 11:17	08/05/20 10:00	
320-63408-30	BH20200804-3RAW	Water	08/04/20 10:43	08/05/20 10:00	



**Chain of Custody Record**

**Albany #224**

**Client Information**  
 Client Contact: Jeffrey Redfield  
 Company: ARCADIS U.S. Inc.  
 Address: 855 Route 146 Suite 210  
 City: Clifton Park  
 State, Zip: NY, 12065  
 Phone: 518-402-9813 (Tel)  
 Email: jeffrey.redfield@arcadis.com  
 Project Name: Stewart ANGB - Butterhill #336089  
 Site:

Sampler: *Ben Powers*  
 Lab PM: Stone, Judy L.  
 E-Mail: Judy.Stone@Eurofinset.com  
 Carrier Tracking No(s):  
 COC No: 480-148344-32107.1  
 Page: Page 1 of 3  
 Job #:

**Analysis Requested**  
 Due Date Requested:  
 TAT Requested (days): *Standard*  
 PO #: 518-402-9813 (Tel)  
 WO #: 48020960  
 Project #: 48020960  
 SOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFCLDA - PFAS, Standard List (21 analytes)	Total Number of Containers	Special Instructions/Note:
BH20200804-1 South-75	8/4/20	0924	G	Water	W	W	W	2	
BH20200804-1 POST		0926	G	Water	W	W	W	2	
BH20200804-2 North-25		0934	G	Water	W	W	W	2	
BH20200804-2 North-50		0938	G	Water	W	W	W	2	
BH20200804-2 North-75		0940	G	Water	W	W	W	2	
BH20200804-2 Mid-Point		0943	G	Water	W	W	W	2	
BH20200804-2 South-25		0945	G	Water	W	W	W	2	
BH20200804-2 South-50		0948	G	Water	W	W	W	2	
BH20200804-2 South-75		0950	G	Water	W	W	W	2	
BH20200804-2 POST		0953	G	Water	W	W	W	2	
BH20200804-3 North-25		0957	G	Water	W	W	W	2	

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

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

**Special Instructions/OC Requirements:**

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *Jeffrey Redfield* Date/Time: 8/4/2020 13:57 Company: Arcadis  
 Relinquished by: *Paul Jaehn* Date/Time: 8/4/20 17:00 Company: Arcadis  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seal No.: 1247732  
 Custody Seal Intact:  Yes  No  
 Cooler Temperature(s) °C and Other Remarks: *-0.1°C / 0.2°C*  
*ST 8/5/20*



<b>Client Information</b>		Lab PM: Stone, Judy L		Carrier Tracking No(s):		COC No: 480-148344-32107.2			
Client Contact: Jeffrey Redfield		E-Mail: Judy.Stone@Eurofins.com		Page 2 of 3		Job #:			
Company: ARCADIS U.S. Inc		Address: 855 Route 146 Suite 210		City: Clifton Park		State, Zip: NY, 12065			
Phone: 518-402-9813(Tel)		TAT Requested (days): Standard		PO #: 518-402-9813(Tel)		Callout ID: 137349			
Email: jeffrey.redfield@arcadis.com		Project #: 48020960		SSOW#:		Site: Stewart ANGB - Butterhill #336089			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/le, B=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	FC, IDA - PFAS, Standard List (21 analytes)	Total Number of Containers	Special Instructions/Note:
BH 20200804 POST-GAC	8/4/20	0849	G	Water	N	N	N	2	
BH 20200804 POST-GAC-DUP		0851	G	Water	N	N	N	2	
BH 20200804 POST-GAC-MS		0853	G	Water	N	N	N	2	
BH 20200804 POST-GAC-MS-D		0855	G	Water	N	N	N	2	
BH 20200804 PRE-GAC		0901	G	Water	N	N	N	2	
BH 20200804-1 North-2.5		0911	G	Water	N	N	N	2	
BH 20200804-1 North-50		0913	G	Water	N	N	N	2	
BH 20200804-1 North-75		0915	G	Water	N	N	N	2	
BH 20200804-1 Mid-Point		0917	G	Water	N	N	N	2	
BH 20200804-1 South-2.5		0921	G	Water	N	N	N	2	
BH 20200804-1 South-50		0923	G	Water	N	N	N	2	
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)									
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:									
<b>Empty Kit Relinquished by:</b> Date: _____ Time: _____ <b>Relinquished by:</b> _____ Company: Arcadis Date/Time: 8/4/20 13:57 <b>Relinquished by:</b> _____ Company: Eurofins Date/Time: 8/4/20 1700 <b>Relinquished by:</b> _____ Company: _____ Date/Time: _____									
<b>Custody Seal No.:</b> A Yes Δ No 1247737 1247732 1247733 Cooler Temperature(s) °C and Other Remarks: -0.1°C / 0.2°C -0.1°C / 0.2°C S7 8/15/20									





Sampler: **#224** Lab PM: Stone, Judy L  
 Phone: **Ben Powers** E-Mail: Judy.Stone@Eurofins.com  
 Company: ARCADIS U.S. Inc  
 Address: 855 Route 146 Suite 210  
 City: Clifton Park  
 State, Zip: NY, 12065  
 Phone: 518-402-9813(Tel)  
 Email: jeffrey.redfield@arcadis.com  
 Project Name: Stewart ANGB - Butterhill #336089  
 Site:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wash/bol, BT=TISSUE, AA=AI)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFCLDA - FAS Standard List (21 analytes)	Total Number of Containers	Special Instructions/Note:
BH20200804-3 Northw-50	8/4/20	0958	G	Water	W	W		2	
BH20200804-3 Northw-75		1000	G	Water	W	W		2	
BH20200804-3 Mid Point		1003	G	Water	W	W		2	
BH20200804-3 Southw-25		1009	G	Water	W	W		2	
BH20200804-3 Southw-50		1010	G	Water	W	W		2	
BH20200804-3 Southw-75		1012	G	Water	W	W		2	
BH20200804-3 POST		1014	G	Water	W	W		2	
BH20200804-1 RAW		1059	G	Water	W	W		2	
BH20200804-2 RAW		1117	G	Water	W	W		2	
BH20200804-3 RAW		1043	G	Water	W	W		2	

Due Date Requested: **Standard**  
 TAT Requested (days):  
 PO #: **48020960**  
 Callout ID: 137349  
 WO #:  
 Project #: 48020960  
 SSOW#:

Analysis Requested

Preservation Codes:  
 A - HCL  
 B - NaOH  
 C - Zn Acetate  
 D - Nitric Acid  
 E - NaHSO4  
 F - MeOH  
 G - Ascorbic Acid  
 H - Ascorbic Acid  
 I - Ice  
 J - DI Water  
 K - EDTA  
 L - EDTA  
 Other:

Matrix (W=water, S=solid, O=wash/bol, BT=TISSUE, AA=AI)

Sample Date: 8/4/20

Sample Time: 0958, 1000, 1003, 1009, 1010, 1012, 1014, 1059, 1117, 1043

Sample Type (C=Comp, G=grab): G

Matrix: Water

Field Filtered Sample (Yes or No): W

Perform MS/MSD (Yes or No): W

PFCLDA - FAS Standard List (21 analytes):

Total Number of Containers: 2

Special Instructions/Note:

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: **Ben Powers** Date: 8/4/2020  
 Relinquished by: **Nat Zashn** Date: 8/4/20  
 Relinquished by: **Nat Zashn** Date: 8/4/20  
 Relinquished by: **Nat Zashn** Date: 8/4/20

Custody Seal Intact: **A** Yes **Δ** No  
 Custody Seal No.: 1247737, 1247732, 1247733  
 Sample Time: 8/5/20 57 8/5/20

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

Received by: **Nat Zashn** Date/Time: 8/4/20 1357  
 Received by: **Nat Zashn** Date/Time: 5 Aug 20 1000  
 Received by: **Nat Zashn** Date/Time: 8/4/20 1000  
 Cooler Temperature(s) °C and Other Remarks: -0.1°C / 0.2°C  
 57 8/5/20



# Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 320-63408-1

**Login Number: 63408**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator: Thompson, Sarah W**

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	1247733, 127737
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.	False	No: IDs on containers do not match the COC. Logged in per COC.
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	

