

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau E

625 Broadway, 12th Floor, Albany, NY 12233-7017

P: (518) 402-9813 | F: (518) 402-9819

www.dec.ny.gov

December 11, 2019

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

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

Dear Supervisor Green,

The New York State Department of Environmental Conservation (DEC) is providing you with a copy of analytical results derived from the December 5, 2019 sampling of the temporary granular activated carbon (GAC) water treatment system by DEC representatives that was installed at the Town of New Windsor (Town) Butterhill Wellfield located at 181 Forge Hill Road.

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

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

During this event, sampling was conducted at eight locations:

- pre-treatment (raw untreated water), which has a "BH20191205PRE-GAC" 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 "BH20191205-1 MID POINT" identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 1), which has a "BH20191205-1 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 "BH20191205-2 MID POINT" identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 2), which has a "BH20191205-2 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 “BH20191205-3 MID POINT” identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 3), which has a BH20191205-3 POST” identifier in the Client Sample ID; and
- post-GAC treatment (treated water after all GAC Trains), which has a “BH20191205POST-GAC” identifier in the Client Sample ID.

The eight locations sampled are depicted in Figure 1.

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

Sincerely,



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

Enclosures

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

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

Date	Analyte	Result ¹ Raw Water	GAC Pair 1 MID	GAC Pair 1 POST	GAC Pair 2 MID	GAC Pair 2 POST	GAC Pair 3 MID	GAC Pair 3 POST	Treated Effluent	USEPA Drinking Water Health Advisory Guidance Value ³	Proposed NYS MCLs ⁴
December 2019	PFOA	2.4	ND ²	ND	ND	ND	ND	ND	ND	70 ³	10 ⁴
	PFOS	2.9	ND	ND	ND	ND	ND	ND	ND	70 ³	10 ⁴

Notes:

- ** 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).

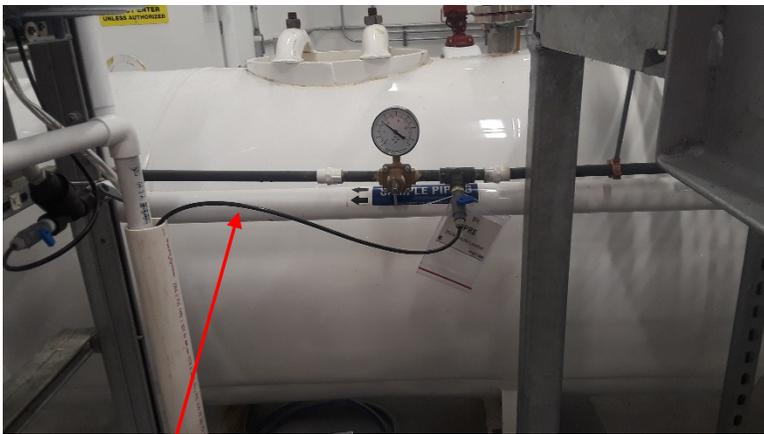
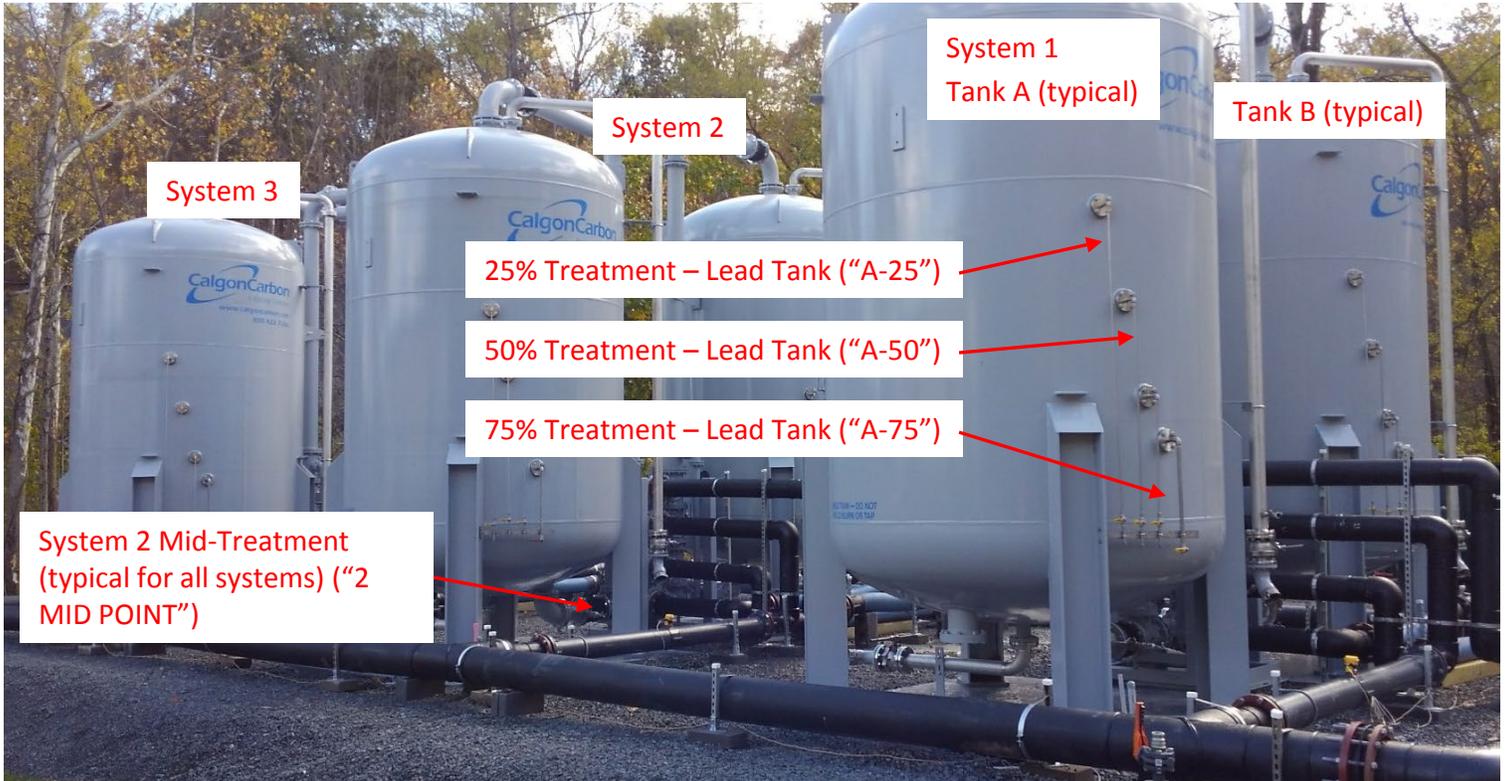
Inorganic Results:

- 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.

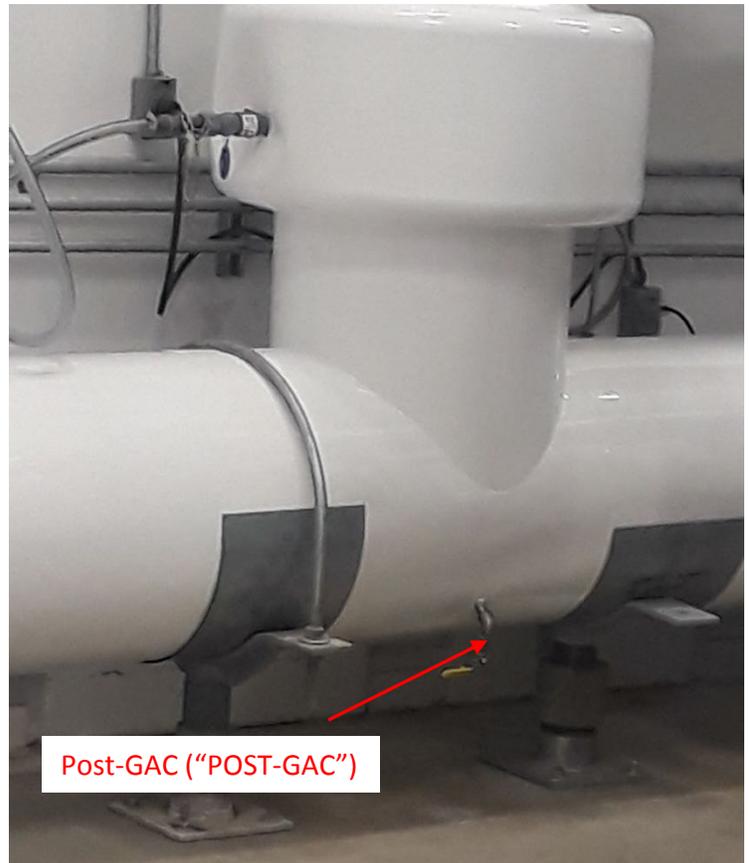
Figure 1
Sampling Locations

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.



Post-GAC (“POST-GAC”)

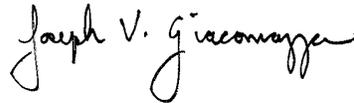
ANALYTICAL REPORT

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

Laboratory Job ID: 320-56832-1
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:
12/10/2019 8:45:07 PM
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LINKS

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

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

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

- 1
- 2
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Management Assistant II
12/10/2019 8:45:07 PM



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Isotope Dilution Summary	11
QC Sample Results	12
QC Association Summary	14
Lab Chronicle	15
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

Definitions/Glossary

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

Job ID: 320-56832-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

Job ID: 320-56832-1

Job ID: 320-56832-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-56832-1

Comments

No additional comments.

Receipt

The samples were received on 12/6/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3° C.

Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the containers

LCMS

Method WS-LC-0025 Att1: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for 13C4 PFOS in the following sample: BH20191205-3 POST (320-56832-7). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The associated sample was non-detect for the analyte.

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

Organic Prep

Method PFAS Prep: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-344118.

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: 320-56832-1

Client Sample ID: BH20191205PRE-GAC

Lab Sample ID: 320-56832-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.6		2.0		ng/L	1		WS-LC-0025 Att1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.7		2.0		ng/L	1		WS-LC-0025 Att1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		2.0		ng/L	1		WS-LC-0025 Att1	Total/NA
Perfluorooctanoic acid (PFOA)	2.4		2.0		ng/L	1		WS-LC-0025 Att1	Total/NA

Client Sample ID: BH20191205-1 MID-POINT

Lab Sample ID: 320-56832-2

No Detections.

Client Sample ID: BH20191205-1 POST

Lab Sample ID: 320-56832-3

No Detections.

Client Sample ID: BH20191205-2 MID-POINT

Lab Sample ID: 320-56832-4

No Detections.

Client Sample ID: BH20191205-2 POST

Lab Sample ID: 320-56832-5

No Detections.

Client Sample ID: BH20191205-3 MID-POINT

Lab Sample ID: 320-56832-6

No Detections.

Client Sample ID: BH20191205-3 POST

Lab Sample ID: 320-56832-7

No Detections.

Client Sample ID: BH20191205POST-GAC

Lab Sample ID: 320-56832-8

No Detections.

Client Sample ID: BH20191205POST-GAC DUP

Lab Sample ID: 320-56832-9

No Detections.

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: 320-56832-1

Client Sample ID: BH20191205PRE-GAC

Lab Sample ID: 320-56832-1

Date Collected: 12/05/19 10:25

Matrix: Water

Date Received: 12/06/19 09:30

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.6		2.0		ng/L		12/09/19 07:31	12/09/19 14:00	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:00	1
Perfluorohexanesulfonic acid (PFHxS)	2.7		2.0		ng/L		12/09/19 07:31	12/09/19 14:00	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:00	1
Perfluorooctanesulfonic acid (PFOS)	2.9		2.0		ng/L		12/09/19 07:31	12/09/19 14:00	1
Perfluorooctanoic acid (PFOA)	2.4		2.0		ng/L		12/09/19 07:31	12/09/19 14:00	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	120		25 - 150				12/09/19 07:31	12/09/19 14:00	1
13C5 PFNA	124		25 - 150				12/09/19 07:31	12/09/19 14:00	1
13C4 PFOA	117		70 - 130				12/09/19 07:31	12/09/19 14:00	1
13C4 PFOS	119		70 - 130				12/09/19 07:31	12/09/19 14:00	1
18O2 PFHxS	119		25 - 150				12/09/19 07:31	12/09/19 14:00	1
13C3 PFBS	120		25 - 150				12/09/19 07:31	12/09/19 14:00	1

Client Sample ID: BH20191205-1 MID-POINT

Lab Sample ID: 320-56832-2

Date Collected: 12/05/19 10:05

Matrix: Water

Date Received: 12/06/19 09:30

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:19	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:19	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:19	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:19	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:19	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	121		25 - 150				12/09/19 07:31	12/09/19 14:19	1
13C5 PFNA	124		25 - 150				12/09/19 07:31	12/09/19 14:19	1
13C4 PFOA	120		70 - 130				12/09/19 07:31	12/09/19 14:19	1
13C4 PFOS	122		70 - 130				12/09/19 07:31	12/09/19 14:19	1
18O2 PFHxS	121		25 - 150				12/09/19 07:31	12/09/19 14:19	1
13C3 PFBS	123		25 - 150				12/09/19 07:31	12/09/19 14:19	1

Client Sample ID: BH20191205-1 POST

Lab Sample ID: 320-56832-3

Date Collected: 12/05/19 10:02

Matrix: Water

Date Received: 12/06/19 09:30

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:37	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:37	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:37	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:37	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:37	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:37	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-56832-1

Client Sample ID: BH20191205-1 POST

Date Collected: 12/05/19 10:02

Date Received: 12/06/19 09:30

Lab Sample ID: 320-56832-3

Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	127		25 - 150	12/09/19 07:31	12/09/19 14:37	1
13C5 PFNA	126		25 - 150	12/09/19 07:31	12/09/19 14:37	1
13C4 PFOA	124		70 - 130	12/09/19 07:31	12/09/19 14:37	1
13C4 PFOS	120		70 - 130	12/09/19 07:31	12/09/19 14:37	1
18O2 PFHxS	134		25 - 150	12/09/19 07:31	12/09/19 14:37	1
13C3 PFBS	129		25 - 150	12/09/19 07:31	12/09/19 14:37	1

Client Sample ID: BH20191205-2 MID-POINT

Date Collected: 12/05/19 09:54

Date Received: 12/06/19 09:30

Lab Sample ID: 320-56832-4

Matrix: Water

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:55	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:55	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:55	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:55	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:55	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 14:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	120		25 - 150	12/09/19 07:31	12/09/19 14:55	1
13C5 PFNA	122		25 - 150	12/09/19 07:31	12/09/19 14:55	1
13C4 PFOA	120		70 - 130	12/09/19 07:31	12/09/19 14:55	1
13C4 PFOS	116		70 - 130	12/09/19 07:31	12/09/19 14:55	1
18O2 PFHxS	117		25 - 150	12/09/19 07:31	12/09/19 14:55	1
13C3 PFBS	121		25 - 150	12/09/19 07:31	12/09/19 14:55	1

Client Sample ID: BH20191205-2 POST

Date Collected: 12/05/19 09:51

Date Received: 12/06/19 09:30

Lab Sample ID: 320-56832-5

Matrix: Water

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:14	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:14	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:14	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:14	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	125		25 - 150	12/09/19 07:31	12/09/19 15:14	1
13C5 PFNA	121		25 - 150	12/09/19 07:31	12/09/19 15:14	1
13C4 PFOA	124		70 - 130	12/09/19 07:31	12/09/19 15:14	1
13C4 PFOS	120		70 - 130	12/09/19 07:31	12/09/19 15:14	1
18O2 PFHxS	123		25 - 150	12/09/19 07:31	12/09/19 15:14	1
13C3 PFBS	123		25 - 150	12/09/19 07:31	12/09/19 15:14	1

Client Sample Results

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

Job ID: 320-56832-1

Client Sample ID: BH20191205-3 MID-POINT

Lab Sample ID: 320-56832-6

Date Collected: 12/05/19 09:48

Matrix: Water

Date Received: 12/06/19 09:30

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:32	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:32	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:32	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:32	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:32	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	122		25 - 150				12/09/19 07:31	12/09/19 15:32	1
13C5 PFNA	129		25 - 150				12/09/19 07:31	12/09/19 15:32	1
13C4 PFOA	119		70 - 130				12/09/19 07:31	12/09/19 15:32	1
13C4 PFOS	120		70 - 130				12/09/19 07:31	12/09/19 15:32	1
18O2 PFHxS	120		25 - 150				12/09/19 07:31	12/09/19 15:32	1
13C3 PFBS	123		25 - 150				12/09/19 07:31	12/09/19 15:32	1

Client Sample ID: BH20191205-3 POST

Lab Sample ID: 320-56832-7

Date Collected: 12/05/19 09:45

Matrix: Water

Date Received: 12/06/19 09:30

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:51	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:51	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:51	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:51	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 15:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	130		25 - 150				12/09/19 07:31	12/09/19 15:51	1
13C5 PFNA	135		25 - 150				12/09/19 07:31	12/09/19 15:51	1
13C4 PFOA	127		70 - 130				12/09/19 07:31	12/09/19 15:51	1
13C4 PFOS	132	*	70 - 130				12/09/19 07:31	12/09/19 15:51	1
18O2 PFHxS	131		25 - 150				12/09/19 07:31	12/09/19 15:51	1
13C3 PFBS	131		25 - 150				12/09/19 07:31	12/09/19 15:51	1

Client Sample ID: BH20191205POST-GAC

Lab Sample ID: 320-56832-8

Date Collected: 12/05/19 10:35

Matrix: Water

Date Received: 12/06/19 09:30

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:28	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:28	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:28	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:28	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:28	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	129		25 - 150				12/09/19 07:31	12/09/19 16:28	1
13C5 PFNA	125		25 - 150				12/09/19 07:31	12/09/19 16:28	1
13C4 PFOA	125		70 - 130				12/09/19 07:31	12/09/19 16:28	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-56832-1

Client Sample ID: BH20191205POST-GAC

Lab Sample ID: 320-56832-8

Date Collected: 12/05/19 10:35

Matrix: Water

Date Received: 12/06/19 09:30

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	126		70 - 130	12/09/19 07:31	12/09/19 16:28	1
18O2 PFHxS	126		25 - 150	12/09/19 07:31	12/09/19 16:28	1
13C3 PFBS	130		25 - 150	12/09/19 07:31	12/09/19 16:28	1

Client Sample ID: BH20191205POST-GAC DUP

Lab Sample ID: 320-56832-9

Date Collected: 12/05/19 00:00

Matrix: Water

Date Received: 12/06/19 09:30

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:46	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:46	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:46	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:46	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:46	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 16:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	115		25 - 150	12/09/19 07:31	12/09/19 16:46	1
13C5 PFNA	113		25 - 150	12/09/19 07:31	12/09/19 16:46	1
13C4 PFOA	115		70 - 130	12/09/19 07:31	12/09/19 16:46	1
13C4 PFOS	119		70 - 130	12/09/19 07:31	12/09/19 16:46	1
18O2 PFHxS	115		25 - 150	12/09/19 07:31	12/09/19 16:46	1
13C3 PFBS	115		25 - 150	12/09/19 07:31	12/09/19 16:46	1

Isotope Dilution Summary

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

Job ID: 320-56832-1

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)					
		PFHpA (25-150)	PFNA (25-150)	PFOA (70-130)	PFOS (70-130)	PFHxS (25-150)	3C3-PFBs (25-150)
320-56832-1	BH20191205PRE-GAC	120	124	117	119	119	120
320-56832-2	BH20191205-1 MID-POINT	121	124	120	122	121	123
320-56832-3	BH20191205-1 POST	127	126	124	120	134	129
320-56832-4	BH20191205-2 MID-POINT	120	122	120	116	117	121
320-56832-5	BH20191205-2 POST	125	121	124	120	123	123
320-56832-6	BH20191205-3 MID-POINT	122	129	119	120	120	123
320-56832-7	BH20191205-3 POST	130	135	127	132 *	131	131
320-56832-8	BH20191205POST-GAC	129	125	125	126	126	130
320-56832-9	BH20191205POST-GAC DUP	115	113	115	119	115	115
LCS 320-344118/2-A	Lab Control Sample	111	109	107	110	110	111
LCSD 320-344118/3-A	Lab Control Sample Dup	120	118	120	115	120	121
MB 320-344118/1-A	Method Blank	117	118	115	116	119	118

Surrogate Legend

PFHpA = 13C4 PFHpA
 PFNA = 13C5 PFNA
 PFOA = 13C4 PFOA
 PFOS = 13C4 PFOS
 PFHxS = 18O2 PFHxS
 13C3-PFBS = 13C3 PFBS

QC Sample Results

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

Job ID: 320-56832-1

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-344118/1-A
Matrix: Water
Analysis Batch: 344185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 344118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 13:05	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 13:05	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 13:05	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 13:05	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 13:05	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/09/19 07:31	12/09/19 13:05	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	117		25 - 150	12/09/19 07:31	12/09/19 13:05	1
13C5 PFNA	118		25 - 150	12/09/19 07:31	12/09/19 13:05	1
13C4 PFOA	115		70 - 130	12/09/19 07:31	12/09/19 13:05	1
13C4 PFOS	116		70 - 130	12/09/19 07:31	12/09/19 13:05	1
18O2 PFHxS	119		25 - 150	12/09/19 07:31	12/09/19 13:05	1
13C3 PFBS	118		25 - 150	12/09/19 07:31	12/09/19 13:05	1

Lab Sample ID: LCS 320-344118/2-A
Matrix: Water
Analysis Batch: 344185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 344118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanesulfonic acid (PFBS)	17.7	16.1		ng/L		91	72 - 151
Perfluoroheptanoic acid (PFHpA)	20.0	18.0		ng/L		90	71 - 138
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.8		ng/L		93	73 - 157
Perfluorononanoic acid (PFNA)	20.0	17.4		ng/L		87	73 - 147
Perfluorooctanesulfonic acid (PFOS)	18.6	15.7		ng/L		85	70 - 130
Perfluorooctanoic acid (PFOA)	20.0	16.4		ng/L		82	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFHpA	111		25 - 150
13C5 PFNA	109		25 - 150
13C4 PFOA	107		70 - 130
13C4 PFOS	110		70 - 130
18O2 PFHxS	110		25 - 150
13C3 PFBS	111		25 - 150

Lab Sample ID: LCSD 320-344118/3-A
Matrix: Water
Analysis Batch: 344185

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 344118

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Perfluorobutanesulfonic acid (PFBS)	17.7	15.4		ng/L		87	72 - 151	5	30
Perfluoroheptanoic acid (PFHpA)	20.0	17.4		ng/L		87	71 - 138	4	30
Perfluorohexanesulfonic acid (PFHxS)	18.2	15.5		ng/L		85	73 - 157	8	30
Perfluorononanoic acid (PFNA)	20.0	15.6		ng/L		78	73 - 147	11	30

Eurofins TestAmerica, Sacramento

QC Sample Results

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

Job ID: 320-56832-1

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-344118/3-A
Matrix: Water
Analysis Batch: 344185

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 344118

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	18.6	14.4		ng/L		78	70 - 130	9	20
Perfluorooctanoic acid (PFOA)	20.0	15.9		ng/L		79	70 - 130	3	20

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
¹³ C4 PFHpA	120		25 - 150
¹³ C5 PFNA	118		25 - 150
¹³ C4 PFOA	120		70 - 130
¹³ C4 PFOS	115		70 - 130
¹⁸ O2 PFHxS	120		25 - 150
¹³ C3 PFBS	121		25 - 150

QC Association Summary

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

Job ID: 320-56832-1

LCMS

Prep Batch: 344118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-56832-1	BH20191205PRE-GAC	Total/NA	Water	PFAS Prep	
320-56832-2	BH20191205-1 MID-POINT	Total/NA	Water	PFAS Prep	
320-56832-3	BH20191205-1 POST	Total/NA	Water	PFAS Prep	
320-56832-4	BH20191205-2 MID-POINT	Total/NA	Water	PFAS Prep	
320-56832-5	BH20191205-2 POST	Total/NA	Water	PFAS Prep	
320-56832-6	BH20191205-3 MID-POINT	Total/NA	Water	PFAS Prep	
320-56832-7	BH20191205-3 POST	Total/NA	Water	PFAS Prep	
320-56832-8	BH20191205POST-GAC	Total/NA	Water	PFAS Prep	
320-56832-9	BH20191205POST-GAC DUP	Total/NA	Water	PFAS Prep	
MB 320-344118/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-344118/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
LCSD 320-344118/3-A	Lab Control Sample Dup	Total/NA	Water	PFAS Prep	

Analysis Batch: 344185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-56832-1	BH20191205PRE-GAC	Total/NA	Water	WS-LC-0025 Att1	344118
320-56832-2	BH20191205-1 MID-POINT	Total/NA	Water	WS-LC-0025 Att1	344118
320-56832-3	BH20191205-1 POST	Total/NA	Water	WS-LC-0025 Att1	344118
320-56832-4	BH20191205-2 MID-POINT	Total/NA	Water	WS-LC-0025 Att1	344118
320-56832-5	BH20191205-2 POST	Total/NA	Water	WS-LC-0025 Att1	344118
320-56832-6	BH20191205-3 MID-POINT	Total/NA	Water	WS-LC-0025 Att1	344118
320-56832-7	BH20191205-3 POST	Total/NA	Water	WS-LC-0025 Att1	344118
320-56832-8	BH20191205POST-GAC	Total/NA	Water	WS-LC-0025 Att1	344118
320-56832-9	BH20191205POST-GAC DUP	Total/NA	Water	WS-LC-0025 Att1	344118
MB 320-344118/1-A	Method Blank	Total/NA	Water	WS-LC-0025 Att1	344118
LCS 320-344118/2-A	Lab Control Sample	Total/NA	Water	WS-LC-0025 Att1	344118
LCSD 320-344118/3-A	Lab Control Sample Dup	Total/NA	Water	WS-LC-0025 Att1	344118

Lab Chronicle

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

Job ID: 320-56832-1

Client Sample ID: BH20191205PRE-GAC

Lab Sample ID: 320-56832-1

Date Collected: 12/05/19 10:25

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	344118	12/09/19 07:31	MM	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			344185	12/09/19 14:00	JY1	TAL SAC

Client Sample ID: BH20191205-1 MID-POINT

Lab Sample ID: 320-56832-2

Date Collected: 12/05/19 10:05

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	344118	12/09/19 07:31	MM	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			344185	12/09/19 14:19	JY1	TAL SAC

Client Sample ID: BH20191205-1 POST

Lab Sample ID: 320-56832-3

Date Collected: 12/05/19 10:02

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	344118	12/09/19 07:31	MM	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			344185	12/09/19 14:37	JY1	TAL SAC

Client Sample ID: BH20191205-2 MID-POINT

Lab Sample ID: 320-56832-4

Date Collected: 12/05/19 09:54

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	344118	12/09/19 07:31	MM	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			344185	12/09/19 14:55	JY1	TAL SAC

Client Sample ID: BH20191205-2 POST

Lab Sample ID: 320-56832-5

Date Collected: 12/05/19 09:51

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	344118	12/09/19 07:31	MM	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			344185	12/09/19 15:14	JY1	TAL SAC

Client Sample ID: BH20191205-3 MID-POINT

Lab Sample ID: 320-56832-6

Date Collected: 12/05/19 09:48

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	344118	12/09/19 07:31	MM	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			344185	12/09/19 15:32	JY1	TAL SAC

Lab Chronicle

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

Job ID: 320-56832-1

Client Sample ID: BH20191205-3 POST

Lab Sample ID: 320-56832-7

Date Collected: 12/05/19 09:45

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	344118	12/09/19 07:31	MM	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			344185	12/09/19 15:51	JY1	TAL SAC

Client Sample ID: BH20191205POST-GAC

Lab Sample ID: 320-56832-8

Date Collected: 12/05/19 10:35

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	344118	12/09/19 07:31	MM	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			344185	12/09/19 16:28	JY1	TAL SAC

Client Sample ID: BH20191205POST-GAC DUP

Lab Sample ID: 320-56832-9

Date Collected: 12/05/19 00:00

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	344118	12/09/19 07:31	MM	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			344185	12/09/19 16:46	JY1	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-56832-1

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	04-01-20

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

Analysis Method	Prep Method	Matrix	Analyte
WS-LC-0025 Att1	PFAS Prep	Water	Perfluorobutanesulfonic acid (PFBS)
WS-LC-0025 Att1	PFAS Prep	Water	Perfluoroheptanoic acid (PFHpA)
WS-LC-0025 Att1	PFAS Prep	Water	Perfluorohexanesulfonic acid (PFHxS)
WS-LC-0025 Att1	PFAS Prep	Water	Perfluorononanoic acid (PFNA)

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

Method Summary

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

Job ID: 320-56832-1

Method	Method Description	Protocol	Laboratory
WS-LC-0025 Att1	Fluorinated Alkyl Substances	TAL-SAC	TAL SAC
PFAS Prep	Preparation, Direct Inject PFAS	TAL-SAC	TAL SAC

Protocol References:

TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

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: 320-56832-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-56832-1	BH20191205PRE-GAC	Water	12/05/19 10:25	12/06/19 09:30	
320-56832-2	BH20191205-1 MID-POINT	Water	12/05/19 10:05	12/06/19 09:30	
320-56832-3	BH20191205-1 POST	Water	12/05/19 10:02	12/06/19 09:30	
320-56832-4	BH20191205-2 MID-POINT	Water	12/05/19 09:54	12/06/19 09:30	
320-56832-5	BH20191205-2 POST	Water	12/05/19 09:51	12/06/19 09:30	
320-56832-6	BH20191205-3 MID-POINT	Water	12/05/19 09:48	12/06/19 09:30	
320-56832-7	BH20191205-3 POST	Water	12/05/19 09:45	12/06/19 09:30	
320-56832-8	BH20191205POST-GAC	Water	12/05/19 10:35	12/06/19 09:30	
320-56832-9	BH20191205POST-GAC DUP	Water	12/05/19 00:00	12/06/19 09:30	



Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 320-56832-1

Login Number: 56832

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	1138056
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No time on sample containers
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	