

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

Pound Ridge Spill #2400692 PIN H7411

## JOB NUMBER

480-223087-1

# Eurofins Buffalo

## Job Notes

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## Compliance Statement

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.

## Authorization



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# Definitions/Glossary

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

**Job ID: 480-223087-1**

**Eurofins Buffalo**

## Job Narrative 480-223087-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 9/5/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C.

### PFAS

Method 1633\_Final: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the Continuing Calibration Blank (CCB) for 13C2 PFTeDA. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries, the CCB is non detect for associated target analytes, therefore, the associated samples are reported. The following sample is affected: MW-2 (480-223087-3).

Method 1633\_Final: The continuing calibration verification (CCV) recovered outside of control limits for IDA compound 13C2 PFTeDA. Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV(s) must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analytes associated with this IDA are within spec, data is reported. The following samples are impacted: DUP (480-223087-1) and MW-1 (480-223087-2).

Method 1633\_Final: The continuing calibration verification (CCV) recovered outside of control limits for IDA compound d5-NEtFOSAA. Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV(s) must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analytes associated with this IDA are within spec, data is reported. The following samples are impacted: DUP (480-223087-1), MW-1 (480-223087-2) and MW-2 (480-223087-3).

Method 1633\_Final: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the Method Blank (MB) for d5-NEtFOSAA. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries, the MB is non detect for associated target analytes, therefore, the associated samples are reported. The following samples are affected: DUP (480-223087-1), MW-1 (480-223087-2) and MW-2 (480-223087-3).

Method 1633\_Final: The low level laboratory control sample (LLCS) for preparation batch 240-626249 and analytical batch 240-626324 recovered outside control limits for the following analyte: d5-NEtFOSAA. However, the native compounds were in spec, therefore the data has been reported.

Method 1633\_Final: The laboratory control sample (LCS) for preparation batch 240-626249 and analytical batch 240-626324 recovered outside control limits for the following analytes: 13C5 PFPeA, 13C3 PFHxS and d5-NEtFOSAA. However, the native compounds were in spec, therefore the data has been reported.

Method 1633\_Final: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: DUP (480-223087-1), MW-1 (480-223087-2) and MW-2 (480-223087-3). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 1633\_Final: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 240-626249 and analytical batch 240-626324 were outside control limits for some analytes. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

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

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# Detection Summary

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Client Sample ID: DUP

## Lab Sample ID: 480-223087-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	100		3.0	0.75	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	330		1.5	0.45	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	260		1.5	0.38	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	250		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	590		1.5	0.41	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	100		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	270		1.5	0.38	ng/L	1		1633	Total/NA
Perfluoroundecanoic acid (PFUnA)	65		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorododecanoic acid (PFDoA)	44		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorotridecanoic acid (PFTrDA)	5.8		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorotetradecanoic acid (PFTeDA)	0.78	J	1.5	0.38	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.5		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.55	J I	1.5	0.38	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.8	J	3.0	0.75	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	13		7.5	1.9	ng/L	1		1633	Total/NA
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	13		7.5	1.9	ng/L	1		1633	Total/NA

## Client Sample ID: MW-1

## Lab Sample ID: 480-223087-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.5	J	6.8	1.7	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	7.0		3.4	1.0	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	7.3		3.4	0.85	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.5		3.4	0.87	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	18		3.4	0.92	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	1.3	J	3.4	0.85	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.4		3.4	0.85	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	15		3.4	0.85	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	38		3.4	0.85	ng/L	1		1633	Total/NA

## Client Sample ID: MW-2

## Lab Sample ID: 480-223087-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	110		3.1	0.78	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	320		1.6	0.47	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	240		1.6	0.39	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	260		1.6	0.40	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	610		1.6	0.42	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	110		1.6	0.39	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	290		1.6	0.39	ng/L	1		1633	Total/NA
Perfluoroundecanoic acid (PFUnA)	70	F1	1.6	0.39	ng/L	1		1633	Total/NA
Perfluorododecanoic acid (PFDoA)	47		1.6	0.39	ng/L	1		1633	Total/NA
Perfluorotridecanoic acid (PFTrDA)	6.3		1.6	0.39	ng/L	1		1633	Total/NA
Perfluorotetradecanoic acid (PFTeDA)	0.90	J	1.6	0.39	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.6	0.39	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.4		1.6	0.39	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.60	J I	1.6	0.39	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	3.1	0.78	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

**Client Sample ID: MW-2 (Continued)**

**Lab Sample ID: 480-223087-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3-Perfluoropentylpropanoic acid (5:3 FTCA)	11		7.8	1.9	ng/L	1		1633	Total/NA
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	13		7.8	1.9	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

**Client Sample ID: DUP**

**Lab Sample ID: 480-223087-1**

Date Collected: 08/21/24 00:00

Matrix: Water

Date Received: 09/05/24 09:30

**Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	100		3.0	0.75	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoropentanoic acid (PFPeA)	330		1.5	0.45	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorohexanoic acid (PFHxA)	260		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoroheptanoic acid (PFHpA)	250		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorooctanoic acid (PFOA)	590		1.5	0.41	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorononanoic acid (PFNA)	100		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorodecanoic acid (PFDA)	270		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoroundecanoic acid (PFUnA)	65		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorododecanoic acid (PFDoA)	44		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorotridecanoic acid (PFTrDA)	5.8		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorotetradecanoic acid (PFTeDA)	0.78	J	1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorooctanesulfonic acid (PFOS)	2.5		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.0	0.87	ng/L		09/09/24 09:54	09/10/24 04:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.0	0.78	ng/L		09/09/24 09:54	09/10/24 04:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.0	0.75	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorooctanesulfonamide (PFOSA)	0.55	J I	1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.50	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.5	2.2	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.5	1.9	ng/L		09/09/24 09:54	09/10/24 04:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.1	0.35	ng/L		09/09/24 09:54	09/10/24 04:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1

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# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

**Client Sample ID: DUP**  
**Date Collected: 08/21/24 00:00**  
**Date Received: 09/05/24 09:30**

**Lab Sample ID: 480-223087-1**  
**Matrix: Water**

**Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
<b>3-Perfluoropropylpropanoic acid (3:3 FTCA)</b>	<b>2.8</b>	<b>J</b>	3.0	0.75	ng/L		09/09/24 09:54	09/10/24 04:22	1
<b>3-Perfluoropentylpropanoic acid (5:3 FTCA)</b>	<b>13</b>		7.5	1.9	ng/L		09/09/24 09:54	09/10/24 04:22	1
<b>3-Perfluoroheptylpropanoic acid (7:3 FTCA)</b>	<b>13</b>		7.5	1.9	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	127		5 - 130	09/09/24 09:54	09/10/24 04:22	1
13C5 PFPeA	139	*5+	40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C5 PFHxA	119		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C4 PFHpA	130		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C8 PFOA	127		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C9 PFNA	126		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C6 PFDA	123		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C7 PFUnA	105		30 - 130	09/09/24 09:54	09/10/24 04:22	1
13C2 PFTeDA	109		10 - 130	09/09/24 09:54	09/10/24 04:22	1
13C3 PFBS	158	*5+	40 - 135	09/09/24 09:54	09/10/24 04:22	1
13C3 PFHxS	139	*5+	40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C8 PFOS	112		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C8 PFOSA	102		40 - 130	09/09/24 09:54	09/10/24 04:22	1
d3-NMeFOSAA	98.7		40 - 170	09/09/24 09:54	09/10/24 04:22	1
d5-NEtFOSAA	127		25 - 135	09/09/24 09:54	09/10/24 04:22	1
M2-4:2 FTS	262	*5+	40 - 200	09/09/24 09:54	09/10/24 04:22	1
M2-6:2 FTS	167		40 - 200	09/09/24 09:54	09/10/24 04:22	1
M2-8:2 FTS	132		40 - 300	09/09/24 09:54	09/10/24 04:22	1
13C3 HFPO-DA	141	*5+	40 - 130	09/09/24 09:54	09/10/24 04:22	1
d7-N-MeFOSE-M	57.5		10 - 130	09/09/24 09:54	09/10/24 04:22	1
d9-N-EtFOSE-M	48.0		10 - 130	09/09/24 09:54	09/10/24 04:22	1
d5-NEtPFOSA	64.1		10 - 130	09/09/24 09:54	09/10/24 04:22	1
D3-NMeFOSA	74.3		10 - 130	09/09/24 09:54	09/10/24 04:22	1
13C2-PFDoDA	105		10 - 130	09/09/24 09:54	09/10/24 04:22	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

**Client Sample ID: MW-1**  
**Date Collected: 08/21/24 13:20**  
**Date Received: 09/05/24 09:30**

**Lab Sample ID: 480-223087-2**  
**Matrix: Water**

**Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.5	J	6.8	1.7	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoropentanoic acid (PFPeA)	7.0		3.4	1.0	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorohexanoic acid (PFHxA)	7.3		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoroheptanoic acid (PFHpA)	4.5		3.4	0.87	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorooctanoic acid (PFOA)	18		3.4	0.92	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorononanoic acid (PFNA)	1.3	J	3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorodecanoic acid (PFDA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoroundecanoic acid (PFUnA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorododecanoic acid (PFDoA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorotridecanoic acid (PFTrDA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorotetradecanoic acid (PFTeDA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorobutanesulfonic acid (PFBS)	4.4		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoropentanesulfonic acid (PFPeS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorohexanesulfonic acid (PFHxS)	15		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorooctanesulfonic acid (PFOS)	38		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorononanesulfonic acid (PFNS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorododecanesulfonic acid (PFDoS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.8	2.0	ng/L		09/09/24 09:54	09/10/24 04:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.8	1.8	ng/L		09/09/24 09:54	09/10/24 04:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.8	1.7	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorooctanesulfonamide (PFOSA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.4	1.1	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		17	5.0	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		17	4.3	ng/L		09/09/24 09:54	09/10/24 04:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.6	0.78	ng/L		09/09/24 09:54	09/10/24 04:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1

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# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

**Client Sample ID: MW-1**  
**Date Collected: 08/21/24 13:20**  
**Date Received: 09/05/24 09:30**

**Lab Sample ID: 480-223087-2**  
**Matrix: Water**

**Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		6.8	1.7	ng/L		09/09/24 09:54	09/10/24 04:38	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		17	4.3	ng/L		09/09/24 09:54	09/10/24 04:38	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		17	4.3	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorodecanesulfonic acid (PFDS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	101		5 - 130	09/09/24 09:54	09/10/24 04:38	1
13C5 PFPeA	112		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C5 PFHxA	98.1		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C4 PFHpA	99.0		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C8 PFOA	104		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C9 PFNA	104		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C6 PFDA	106		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C7 PFUnA	99.2		30 - 130	09/09/24 09:54	09/10/24 04:38	1
13C2 PFTeDA	110		10 - 130	09/09/24 09:54	09/10/24 04:38	1
13C3 PFBS	110		40 - 135	09/09/24 09:54	09/10/24 04:38	1
13C3 PFHxS	105		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C8 PFOS	106		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C8 PFOSA	92.7		40 - 130	09/09/24 09:54	09/10/24 04:38	1
d3-NMeFOSAA	102		40 - 170	09/09/24 09:54	09/10/24 04:38	1
d5-NEtFOSAA	162	*5+	25 - 135	09/09/24 09:54	09/10/24 04:38	1
M2-4:2 FTS	115		40 - 200	09/09/24 09:54	09/10/24 04:38	1
M2-6:2 FTS	107		40 - 200	09/09/24 09:54	09/10/24 04:38	1
M2-8:2 FTS	105		40 - 300	09/09/24 09:54	09/10/24 04:38	1
13C3 HFPO-DA	105		40 - 130	09/09/24 09:54	09/10/24 04:38	1
d7-N-MeFOSE-M	86.3		10 - 130	09/09/24 09:54	09/10/24 04:38	1
d9-N-EtFOSE-M	87.5		10 - 130	09/09/24 09:54	09/10/24 04:38	1
d5-NEtPFOSA	77.4		10 - 130	09/09/24 09:54	09/10/24 04:38	1
D3-NMeFOSA	74.4		10 - 130	09/09/24 09:54	09/10/24 04:38	1
13C2-PFDoDA	104		10 - 130	09/09/24 09:54	09/10/24 04:38	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

**Client Sample ID: MW-2**

**Lab Sample ID: 480-223087-3**

Date Collected: 08/21/24 14:30

Matrix: Water

Date Received: 09/05/24 09:30

**Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	110		3.1	0.78	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoropentanoic acid (PFPeA)	320		1.6	0.47	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorohexanoic acid (PFHxA)	240		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoroheptanoic acid (PFHpA)	260		1.6	0.40	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorooctanoic acid (PFOA)	610		1.6	0.42	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorononanoic acid (PFNA)	110		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorodecanoic acid (PFDA)	290		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoroundecanoic acid (PFUnA)	70	F1	1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorododecanoic acid (PFDoA)	47		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorotridecanoic acid (PFTrDA)	6.3		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorotetradecanoic acid (PFTeDA)	0.90	J	1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorooctanesulfonic acid (PFOS)	2.4		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.1	0.89	ng/L		09/09/24 09:54	09/10/24 05:28	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.1	0.80	ng/L		09/09/24 09:54	09/10/24 05:28	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.1	0.78	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorooctanesulfonamide (PFOSA)	0.60	J I	1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.52	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.8	2.3	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.8	1.9	ng/L		09/09/24 09:54	09/10/24 05:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.2	0.36	ng/L		09/09/24 09:54	09/10/24 05:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1

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# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

**Client Sample ID: MW-2**  
**Date Collected: 08/21/24 14:30**  
**Date Received: 09/05/24 09:30**

**Lab Sample ID: 480-223087-3**  
**Matrix: Water**

**Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
<b>3-Perfluoropropylpropanoic acid (3:3 FTCA)</b>	<b>2.9</b>	<b>J</b>	3.1	0.78	ng/L		09/09/24 09:54	09/10/24 05:28	1
<b>3-Perfluoropentylpropanoic acid (5:3 FTCA)</b>	<b>11</b>		7.8	1.9	ng/L		09/09/24 09:54	09/10/24 05:28	1
<b>3-Perfluoroheptylpropanoic acid (7:3 FTCA)</b>	<b>13</b>		7.8	1.9	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	118		5 - 130	09/09/24 09:54	09/10/24 05:28	1
13C5 PFPeA	120		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C5 PFHxA	108		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C4 PFHpA	107		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C8 PFOA	116		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C9 PFNA	118		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C6 PFDA	124		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C7 PFUnA	108		30 - 130	09/09/24 09:54	09/10/24 05:28	1
13C2 PFTeDA	123		10 - 130	09/09/24 09:54	09/10/24 05:28	1
13C3 PFBS	140	*5+	40 - 135	09/09/24 09:54	09/10/24 05:28	1
13C3 PFHxS	126		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C8 PFOS	113		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C8 PFOSA	98.8		40 - 130	09/09/24 09:54	09/10/24 05:28	1
d3-NMeFOSAA	116		40 - 170	09/09/24 09:54	09/10/24 05:28	1
d5-NEtFOSAA	136	*5+	25 - 135	09/09/24 09:54	09/10/24 05:28	1
M2-4:2 FTS	255	*5+	40 - 200	09/09/24 09:54	09/10/24 05:28	1
M2-6:2 FTS	158		40 - 200	09/09/24 09:54	09/10/24 05:28	1
M2-8:2 FTS	129		40 - 300	09/09/24 09:54	09/10/24 05:28	1
13C3 HFPO-DA	108		40 - 130	09/09/24 09:54	09/10/24 05:28	1
d7-N-MeFOSE-M	90.4		10 - 130	09/09/24 09:54	09/10/24 05:28	1
d9-N-EtFOSE-M	87.1		10 - 130	09/09/24 09:54	09/10/24 05:28	1
d5-NEtPFOSA	79.0		10 - 130	09/09/24 09:54	09/10/24 05:28	1
D3-NMeFOSA	82.9		10 - 130	09/09/24 09:54	09/10/24 05:28	1
13C2-PFDoDA	112		10 - 130	09/09/24 09:54	09/10/24 05:28	1

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

**Lab Sample ID: MB 240-626249/1-A**  
**Matrix: Water**  
**Analysis Batch: 626324**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 626249**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.60	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.51	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.54	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.0	1.2	ng/L		09/09/24 09:54	09/10/24 02:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		09/09/24 09:54	09/10/24 02:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.0	1.0	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.67	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	3.0	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		09/09/24 09:54	09/10/24 02:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.46	ng/L		09/09/24 09:54	09/10/24 02:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1

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# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

**Lab Sample ID: MB 240-626249/1-A**  
**Matrix: Water**  
**Analysis Batch: 626324**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 626249**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		09/09/24 09:54	09/10/24 02:09	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.5	ng/L		09/09/24 09:54	09/10/24 02:09	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94.6		5 - 130	09/09/24 09:54	09/10/24 02:09	1
13C5 PFPeA	89.9		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C5 PFHxA	91.6		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C4 PFHpA	93.2		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C8 PFOA	93.9		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C9 PFNA	91.6		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C6 PFDA	91.9		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C7 PFUnA	85.7		30 - 130	09/09/24 09:54	09/10/24 02:09	1
13C2 PFTeDA	96.9		10 - 130	09/09/24 09:54	09/10/24 02:09	1
13C3 PFBS	102		40 - 135	09/09/24 09:54	09/10/24 02:09	1
13C3 PFHxS	97.8		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C8 PFOS	93.4		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C8 PFOSA	85.1		40 - 130	09/09/24 09:54	09/10/24 02:09	1
d3-NMeFOSAA	93.5		40 - 170	09/09/24 09:54	09/10/24 02:09	1
d5-NEtFOSAA	164	*5+	25 - 135	09/09/24 09:54	09/10/24 02:09	1
M2-4:2 FTS	112		40 - 200	09/09/24 09:54	09/10/24 02:09	1
M2-6:2 FTS	99.6		40 - 200	09/09/24 09:54	09/10/24 02:09	1
M2-8:2 FTS	101		40 - 300	09/09/24 09:54	09/10/24 02:09	1
13C3 HFPO-DA	94.5		40 - 130	09/09/24 09:54	09/10/24 02:09	1
d7-N-MeFOSE-M	69.6		10 - 130	09/09/24 09:54	09/10/24 02:09	1
d9-N-EtFOSE-M	67.0		10 - 130	09/09/24 09:54	09/10/24 02:09	1
d5-NEtPFOSA	60.7		10 - 130	09/09/24 09:54	09/10/24 02:09	1
D3-NMeFOSA	57.0		10 - 130	09/09/24 09:54	09/10/24 02:09	1
13C2-PFDoDA	85.1		10 - 130	09/09/24 09:54	09/10/24 02:09	1

**Lab Sample ID: LCS 240-626249/3-A**  
**Matrix: Water**  
**Analysis Batch: 626324**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 626249**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	80.0	92.3		ng/L		115	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	38.1		ng/L		95	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	44.8		ng/L		112	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	47.1		ng/L		118	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	46.6		ng/L		116	70 - 150
Perfluorononanoic acid (PFNA)	40.0	46.0		ng/L		115	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	46.6		ng/L		117	70 - 140

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# QC Sample Results

Client: New York State D.E.C.  
 Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

**Lab Sample ID: LCS 240-626249/3-A**  
**Matrix: Water**  
**Analysis Batch: 626324**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 626249**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	40.0	50.4		ng/L		126	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	40.8		ng/L		102	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	41.7		ng/L		104	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	37.6		ng/L		94	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.4	43.2		ng/L		122	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.5	42.9		ng/L		114	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.4	42.0		ng/L		115	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.1	45.4		ng/L		119	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	45.8		ng/L		123	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.4	45.0		ng/L		117	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.7	37.0		ng/L		95	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	74.7	87.3		ng/L		117	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	75.8	81.3		ng/L		107	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.6	89.9		ng/L		117	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	47.2		ng/L		118	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	50.5		ng/L		126	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	47.2		ng/L		118	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.9		ng/L		115	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.5		ng/L		101	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	211		ng/L		105	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	211		ng/L		106	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	34.0		ng/L		113	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	40.7		ng/L		108	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	40.2		ng/L		100	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	44.9		ng/L		112	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.3	36.9		ng/L		99	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.7	33.0		ng/L		88	55 - 160

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# QC Sample Results

Client: New York State D.E.C.  
 Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

**Lab Sample ID: LCS 240-626249/3-A**  
**Matrix: Water**  
**Analysis Batch: 626324**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 626249**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	35.6	43.0		ng/L		121	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	79.8		ng/L		100	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	209		ng/L		105	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	187		ng/L		93	50 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	42.5		ng/L		110	60 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	40.0		ng/L		100	55 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	126		5 - 130
13C5 PFPeA	139	*5+	40 - 130
13C5 PFHxA	117		40 - 130
13C4 PFHpA	122		40 - 130
13C8 PFOA	124		40 - 130
13C9 PFNA	129		40 - 130
13C6 PFDA	128		40 - 130
13C7 PFUnA	118		30 - 130
13C2 PFTeDA	124		10 - 130
13C3 PFBS	135		40 - 135
13C3 PFHxS	133	*5+	40 - 130
13C8 PFOS	126		40 - 130
13C8 PFOSA	114		40 - 130
d3-NMeFOSAA	122		40 - 170
d5-NEtFOSAA	236	*5+	25 - 135
M2-4:2 FTS	140		40 - 200
M2-6:2 FTS	130		40 - 200
M2-8:2 FTS	130		40 - 300
13C3 HFPO-DA	126		40 - 130
d7-N-MeFOSE-M	83.3		10 - 130
d9-N-EtFOSE-M	76.5		10 - 130
d5-NEtPFOSA	82.5		10 - 130
D3-NMeFOSA	85.0		10 - 130
13C2-PFDoDA	124		10 - 130

**Lab Sample ID: LLCS 240-626249/2-A**  
**Matrix: Water**  
**Analysis Batch: 626324**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 626249**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	10.6		ng/L		133	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.54		ng/L		113	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	5.60		ng/L		140	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	5.49		ng/L		137	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	5.99		ng/L		150	70 - 150
Perfluorononanoic acid (PFNA)	4.00	5.93		ng/L		148	70 - 150

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# QC Sample Results

Client: New York State D.E.C.  
 Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

**Lab Sample ID: LLCS 240-626249/2-A**  
**Matrix: Water**  
**Analysis Batch: 626324**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 626249**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanoic acid (PFDA)	4.00	4.72		ng/L		118	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	5.58		ng/L		140	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.99		ng/L		125	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	4.93		ng/L		123	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.60		ng/L		115	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.54	4.21		ng/L		119	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.75	4.58		ng/L		122	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.64	4.73		ng/L		130	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.81	5.49		ng/L		144	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.71	5.36		ng/L		144	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.84	5.10		ng/L		133	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.87	4.96		ng/L		128	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.47	10.4		ng/L		139	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.58	8.60		ng/L		113	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.66	10.8		ng/L		141	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	5.42		ng/L		136	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	5.26		ng/L		132	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	5.16		ng/L		129	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	5.48		ng/L		137	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.59		ng/L		115	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	25.5		ng/L		128	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	24.6		ng/L		123	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	3.74		ng/L		125	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.77	4.81		ng/L		128	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.58		ng/L		115	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	5.53		ng/L		138	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	3.73	4.39		ng/L		118	70 - 155

# QC Sample Results

Client: New York State D.E.C.  
 Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

**Lab Sample ID: LLCS 240-626249/2-A**  
**Matrix: Water**  
**Analysis Batch: 626324**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 626249**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.77	4.41		ng/L		117	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	3.56	4.65		ng/L		131	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	8.56		ng/L		107	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	22.5		ng/L		112	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	22.5		ng/L		112	50 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	5.06		ng/L		131	60 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.60		ng/L		115	55 - 140

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C4 PFBA	84.5		5 - 130
13C5 PFPeA	87.0		40 - 130
13C5 PFHxA	75.5		40 - 130
13C4 PFHpA	81.2		40 - 130
13C8 PFOA	78.6		40 - 130
13C9 PFNA	83.8		40 - 130
13C6 PFDA	85.7		40 - 130
13C7 PFUnA	81.1		30 - 130
13C2 PFTeDA	96.9		10 - 130
13C3 PFBS	97.3		40 - 135
13C3 PFHxS	91.0		40 - 130
13C8 PFOS	83.3		40 - 130
13C8 PFOSA	75.5		40 - 130
d3-NMeFOSAA	83.9		40 - 170
d5-NEtFOSAA	164	*5+	25 - 135
M2-4:2 FTS	93.4		40 - 200
M2-6:2 FTS	91.3		40 - 200
M2-8:2 FTS	92.6		40 - 300
13C3 HFPO-DA	80.9		40 - 130
d7-N-MeFOSE-M	68.5		10 - 130
d9-N-EtFOSE-M	67.2		10 - 130
d5-NEtPFOSA	56.9		10 - 130
D3-NMeFOSA	57.5		10 - 130
13C2-PFDoDA	84.1		10 - 130

**Lab Sample ID: 480-223087-3 MS**  
**Matrix: Water**  
**Analysis Batch: 626324**

**Client Sample ID: MW-2 MS**  
**Prep Type: Total/NA**  
**Prep Batch: 626249**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	110		59.7	189		ng/L		132	70 - 140
Perfluoropentanoic acid (PFPeA)	320		29.9	403	4	ng/L		281	65 - 135
Perfluorohexanoic acid (PFHxA)	240		29.9	304	4	ng/L		200	70 - 145
Perfluoroheptanoic acid (PFHpA)	260		29.9	310	4	ng/L		182	70 - 150

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# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-223087-3 MS

Client Sample ID: MW-2 MS

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 626324

Prep Batch: 626249

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Perfluorooctanoic acid (PFOA)	610		29.9	647	4	ng/L		117	70 - 150
Perfluorononanoic acid (PFNA)	110		29.9	147		ng/L		126	70 - 150
Perfluorodecanoic acid (PFDA)	290		29.9	338	E 4	ng/L		169	70 - 140
Perfluoroundecanoic acid (PFUnA)	70	F1	29.9	118	F1	ng/L		164	70 - 145
Perfluorododecanoic acid (PFDoA)	47		29.9	77.3		ng/L		102	70 - 140
Perfluorotridecanoic acid (PFTrDA)	6.3		29.9	39.6		ng/L		112	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	0.90	J	29.9	34.0		ng/L		111	60 - 140
Perfluorobutanesulfonic acid (PFBS)	1.0	J	26.4	35.8		ng/L		132	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	ND		28.0	37.3		ng/L		133	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	ND		27.2	33.5		ng/L		123	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	ND		28.4	37.9		ng/L		133	70 - 150
Perfluorooctanesulfonic acid (PFOS)	2.4		27.7	39.6		ng/L		134	55 - 150
Perfluorononanesulfonic acid (PFNS)	ND		28.7	34.7		ng/L		121	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	ND		28.9	31.0		ng/L		107	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		55.8	77.2		ng/L		139	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		56.6	67.5		ng/L		119	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		57.2	72.8		ng/L		127	60 - 150
Perfluorooctanesulfonamide (PFOSA)	0.60	J I	29.9	39.3		ng/L		130	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		29.9	40.6		ng/L		136	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		29.9	39.5		ng/L		132	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		29.9	39.2		ng/L		131	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		29.9	33.1		ng/L		111	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		149	179		ng/L		120	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		149	189		ng/L		127	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		22.4	28.4		ng/L		127	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		28.1	31.3		ng/L		111	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		29.9	36.6		ng/L		123	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		29.9	38.9		ng/L		130	50 - 150

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

**Lab Sample ID: 480-223087-3 MS**

**Matrix: Water**

**Analysis Batch: 626324**

**Client Sample ID: MW-2 MS**

**Prep Type: Total/NA**

**Prep Batch: 626249**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	ND		27.8	29.7		ng/L		107	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		28.1	27.1		ng/L		96	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		26.6	35.7		ng/L		134	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	59.7	71.4		ng/L		115	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	11		149	180		ng/L		113	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	13		149	172		ng/L		106	50 - 145
Perfluorodecanesulfonic acid (PFDS)	ND		28.8	34.3		ng/L		119	60 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		29.9	37.8		ng/L		127	55 - 140

Isotope Dilution	%Recovery	MS Qualifier	MS Limits
13C4 PFBA	88.0		5 - 130
13C5 PFPeA	95.3		40 - 130
13C5 PFHxA	88.4		40 - 130
13C4 PFHpA	91.1		40 - 130
13C8 PFOA	92.9		40 - 130
13C9 PFNA	95.7		40 - 130
13C6 PFDA	93.5		40 - 130
13C7 PFUnA	83.0		30 - 130
13C2 PFTeDA	90.4		10 - 130
13C3 PFBS	107		40 - 135
13C3 PFHxS	99.5		40 - 130
13C8 PFOS	96.1		40 - 130
13C8 PFOSA	83.7		40 - 130
d3-NMeFOSAA	90.0		40 - 170
d5-NEtFOSAA	127		25 - 135
M2-4:2 FTS	187		40 - 200
M2-6:2 FTS	125		40 - 200
M2-8:2 FTS	101		40 - 300
13C3 HFPO-DA	96.6		40 - 130
d7-N-MeFOSE-M	68.9		10 - 130
d9-N-EtFOSE-M	60.7		10 - 130
d5-NEtPFOSA	63.4		10 - 130
D3-NMeFOSA	64.6		10 - 130
13C2-PFDoDA	89.4		10 - 130

**Lab Sample ID: 480-223087-3 MSD**

**Matrix: Water**

**Analysis Batch: 626324**

**Client Sample ID: MW-2 MSD**

**Prep Type: Total/NA**

**Prep Batch: 626249**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	110		60.6	174		ng/L		106	70 - 140	8	30

Eurofins Buffalo

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-223087-3 MSD

Matrix: Water

Analysis Batch: 626324

Client Sample ID: MW-2 MSD

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Perfluoropentanoic acid (PFPeA)	320		30.3	380	4	ng/L		202	65 - 135	6	30
Perfluorohexanoic acid (PFHxA)	240		30.3	276	4	ng/L		106	70 - 145	10	30
Perfluoroheptanoic acid (PFHpA)	260		30.3	296	4	ng/L		135	70 - 150	4	30
Perfluorooctanoic acid (PFOA)	610		30.3	606	4	ng/L		-20	70 - 150	7	30
Perfluorononanoic acid (PFNA)	110		30.3	136		ng/L		88	70 - 150	8	30
Perfluorodecanoic acid (PFDA)	290		30.3	298	4	ng/L		33	70 - 140	13	30
Perfluoroundecanoic acid (PFUnA)	70	F1	30.3	108		ng/L		128	70 - 145	9	30
Perfluorododecanoic acid (PFDoA)	47		30.3	78.7		ng/L		105	70 - 140	2	30
Perfluorotridecanoic acid (PFTrDA)	6.3		30.3	36.1		ng/L		98	65 - 140	9	30
Perfluorotetradecanoic acid (PFTeDA)	0.90	J	30.3	31.0		ng/L		99	60 - 140	9	30
Perfluorobutanesulfonic acid (PFBS)	1.0	J	26.8	35.3		ng/L		128	60 - 145	1	30
Perfluoropentanesulfonic acid (PFPeS)	ND		28.4	33.4		ng/L		117	65 - 140	11	30
Perfluorohexanesulfonic acid (PFHxS)	ND		27.6	30.4		ng/L		110	65 - 145	10	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		28.8	35.9		ng/L		124	70 - 150	5	30
Perfluorooctanesulfonic acid (PFOS)	2.4		28.1	36.8		ng/L		122	55 - 150	7	30
Perfluorononanesulfonic acid (PFNS)	ND		29.1	32.9		ng/L		113	65 - 145	5	30
Perfluorododecanesulfonic acid (PFDoS)	ND		29.3	30.6		ng/L		104	50 - 145	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		56.6	69.2		ng/L		122	70 - 145	11	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		57.5	66.9		ng/L		116	65 - 155	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		58.1	68.1		ng/L		117	60 - 150	7	30
Perfluorooctanesulfonamide (PFOSA)	0.60	J I	30.3	37.8		ng/L		123	70 - 145	4	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		30.3	36.4		ng/L		120	60 - 150	11	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		30.3	35.2		ng/L		116	65 - 145	11	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		30.3	35.4		ng/L		117	50 - 140	10	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		30.3	32.1		ng/L		106	70 - 145	3	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		152	164		ng/L		109	70 - 145	9	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		152	158		ng/L		104	70 - 135	18	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		22.7	24.4		ng/L		107	70 - 140	15	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		28.5	29.4		ng/L		103	65 - 145	6	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		30.3	32.8		ng/L		108	60 - 150	11	30

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# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-223087-3 MSD

Client Sample ID: MW-2 MSD

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 626324

Prep Batch: 626249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	ND		30.3	39.7		ng/L		131	50 - 150	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		28.2	29.8		ng/L		106	70 - 155	0	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		28.5	27.3		ng/L		96	55 - 160	1	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		27.0	34.4		ng/L		127	70 - 140	4	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	60.6	66.1		ng/L		104	65 - 130	8	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	11		152	167		ng/L		102	70 - 135	7	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	13		152	169		ng/L		103	50 - 145	1	30
Perfluorodecanesulfonic acid (PFDS)	ND		29.2	32.6		ng/L		112	60 - 145	5	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		30.3	33.3		ng/L		110	55 - 140	13	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	85.1		5 - 130
13C5 PFPeA	91.2		40 - 130
13C5 PFHxA	83.6		40 - 130
13C4 PFHpA	86.7		40 - 130
13C8 PFOA	89.7		40 - 130
13C9 PFNA	96.8		40 - 130
13C6 PFDA	99.9		40 - 130
13C7 PFUnA	88.0		30 - 130
13C2 PFTeDA	98.1		10 - 130
13C3 PFBS	106		40 - 135
13C3 PFHxS	101		40 - 130
13C8 PFOS	93.1		40 - 130
13C8 PFOSA	79.3		40 - 130
d3-NMeFOSAA	88.8		40 - 170
d5-NEtFOSAA	130		25 - 135
M2-4:2 FTS	187		40 - 200
M2-6:2 FTS	122		40 - 200
M2-8:2 FTS	102		40 - 300
13C3 HFPO-DA	94.3		40 - 130
d7-N-MeFOSE-M	73.0		10 - 130
d9-N-EtFOSE-M	63.7		10 - 130
d5-NEtPFOSA	63.8		10 - 130
D3-NMeFOSA	65.9		10 - 130
13C2-PFDoDA	91.0		10 - 130

# QC Association Summary

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## LCMS

### Prep Batch: 626249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223087-1	DUP	Total/NA	Water	1633	
480-223087-2	MW-1	Total/NA	Water	1633	
480-223087-3	MW-2	Total/NA	Water	1633	
MB 240-626249/1-A	Method Blank	Total/NA	Water	1633	
LCS 240-626249/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 240-626249/2-A	Lab Control Sample	Total/NA	Water	1633	
480-223087-3 MS	MW-2 MS	Total/NA	Water	1633	
480-223087-3 MSD	MW-2 MSD	Total/NA	Water	1633	

### Analysis Batch: 626324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223087-1	DUP	Total/NA	Water	1633	626249
480-223087-2	MW-1	Total/NA	Water	1633	626249
480-223087-3	MW-2	Total/NA	Water	1633	626249
MB 240-626249/1-A	Method Blank	Total/NA	Water	1633	626249
LCS 240-626249/3-A	Lab Control Sample	Total/NA	Water	1633	626249
LLCS 240-626249/2-A	Lab Control Sample	Total/NA	Water	1633	626249
480-223087-3 MS	MW-2 MS	Total/NA	Water	1633	626249
480-223087-3 MSD	MW-2 MSD	Total/NA	Water	1633	626249



# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Client Sample ID: DUP

Date Collected: 08/21/24 00:00

Date Received: 09/05/24 09:30

## Lab Sample ID: 480-223087-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			626249	JVB4	EET CLE	09/09/24 09:54
Total/NA	Analysis	1633		1	626324	MRL	EET CLE	09/10/24 04:22

## Client Sample ID: MW-1

Date Collected: 08/21/24 13:20

Date Received: 09/05/24 09:30

## Lab Sample ID: 480-223087-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			626249	JVB4	EET CLE	09/09/24 09:54
Total/NA	Analysis	1633		1	626324	MRL	EET CLE	09/10/24 04:38

## Client Sample ID: MW-2

Date Collected: 08/21/24 14:30

Date Received: 09/05/24 09:30

## Lab Sample ID: 480-223087-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			626249	JVB4	EET CLE	09/09/24 09:54
Total/NA	Analysis	1633		1	626324	MRL	EET CLE	09/10/24 05:28

### Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

# Accreditation/Certification Summary

Client: New York State D.E.C.  
 Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10975	04-02-25

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
1633	1633	Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
1633	1633	Water	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
1633	1633	Water	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
1633	1633	Water	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
1633	1633	Water	3-Perfluoroheptylpropanoic acid (7:3 FTCA)
1633	1633	Water	3-Perfluoropentylpropanoic acid (5:3 FTCA)
1633	1633	Water	3-Perfluoropropylpropanoic acid (3:3 FTCA)
1633	1633	Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
1633	1633	Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)
1633	1633	Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
1633	1633	Water	N-ethylperfluorooctane sulfonamide (NEtFOSA)
1633	1633	Water	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)
1633	1633	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
1633	1633	Water	N-methylperfluorooctane sulfonamide (NMeFOSA)
1633	1633	Water	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)
1633	1633	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
1633	1633	Water	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
1633	1633	Water	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)
1633	1633	Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
1633	1633	Water	Perfluoro-4-methoxybutanoic acid (PFMBA)
1633	1633	Water	Perfluorobutanesulfonic acid (PFBS)
1633	1633	Water	Perfluorobutanoic acid (PFBA)
1633	1633	Water	Perfluorodecanesulfonic acid (PFDS)
1633	1633	Water	Perfluorodecanoic acid (PFDA)
1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
1633	1633	Water	Perfluorododecanoic acid (PFDoS)
1633	1633	Water	Perfluoroheptanesulfonic acid (PFHpS)
1633	1633	Water	Perfluoroheptanoic acid (PFHpA)
1633	1633	Water	Perfluorohexanesulfonic acid (PFHxS)
1633	1633	Water	Perfluorohexanoic acid (PFHxA)

# Accreditation/Certification Summary

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Laboratory: Eurofins Cleveland (Continued)

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

Authority	Program	Identification Number	Expiration Date
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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
1633	1633	Water	Perfluorononanesulfonic acid (PFNS)
1633	1633	Water	Perfluorononanoic acid (PFNA)
1633	1633	Water	Perfluorooctanesulfonamide (PFOSA)
1633	1633	Water	Perfluorooctanesulfonic acid (PFOS)
1633	1633	Water	Perfluorooctanoic acid (PFOA)
1633	1633	Water	Perfluoropentanesulfonic acid (PFPeS)
1633	1633	Water	Perfluoropentanoic acid (PFPeA)
1633	1633	Water	Perfluorotetradecanoic acid (PFTeDA)
1633	1633	Water	Perfluorotridecanoic acid (PFTrDA)
1633	1633	Water	Perfluoroundecanoic acid (PFUnA)

# Method Summary

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
1633	Solid-Phase Extraction (SPE)	EPA	EET CLE

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



# Sample Summary

Client: New York State D.E.C.  
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

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<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
480-223087-1	DUP	Water	08/21/24 00:00	09/05/24 09:30
480-223087-2	MW-1	Water	08/21/24 13:20	09/05/24 09:30
480-223087-3	MW-2	Water	08/21/24 14:30	09/05/24 09:30

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<b>Client Information</b>		Sampler: <b>Michaela Cochran</b>		Lab PM: Fischer, Brian J		Carrier Tracking No(s):		COC No: 480-198889-41092.1	
Client Contact: Michaela Cochran		Phone: [Blank]		E-Mail: Brian.Fischer@et.eurofins.com		State of Origin: NY		Page: Page 1 of 1	
Company: New York State D.E.C.		Address: 625 Broadway 12th Floor		City: Albany		State: NY		Job #: [Blank]	
Address: 625 Broadway 12th Floor		City: Albany		State: NY		Country: NY		Preservation Codes: N - None	
State, Zip: NY, 12233-7017		Phone: 518-402-9669 (Tel)		Email: Michaela.cochran@dec.ny.gov		Project Name: Pound Ridge Spill #2400892 PIN H7411		Other: [Blank]	
PO #: 518-402-9669 (Tel)		WO #: [Blank]		Project #: 48027807		SSOW#: [Blank]		Special Instructions/Note: [Blank]	
Site: <b>Pound Ridge</b>		Due Date Requested: 9/20/24		TAT Requested (days): 30		Compliance Project: Δ Yes Δ No		Callout ID: 152002	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)	
DUP		8/21/24		[Blank]		G		Water	
MW-1		[Blank]		1:20pm		[Blank]		Water	
MW-2		[Blank]		2:30pm		[Blank]		Water	
MW-2-MS		[Blank]		[Blank]		[Blank]		Water	
MW-2-MSD		[Blank]		[Blank]		[Blank]		Water	
Possible Hazard Identification		Deliverable Requested: 1, II, III, IV, Other (specify)		Poison B		Skin Irritant		Flammable	
Cat 6 / EDD		[Blank]		[Blank]		[Blank]		[Blank]	
Empty Kit Relinquished by: Michaela Cochran		Date: 8/20/24		Time: 1500		Company: EETN		Company: EETN	
Relinquished by: Michaela Cochran		Date: 9/14/24		Time: 8:00am		Company: EETN		Company: EETN	
Relinquished by: Shawn Vincent Rock		Date: 9/14/24		Time: 9:30		Company: THB		Company: THB	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.: [Blank]		Cooler Temperature(s) °C and Other Remarks: 2.7 ICE		Return To Client		Archive For	
[Blank]		[Blank]		[Blank]		[Blank]		[Blank]	



Eurofins - Cleveland Sample Receipt Form/Narrative Login # \_\_\_\_\_  
 Barbertron Facility

Client Eurofins - Buffalo Site Name \_\_\_\_\_ Cooler unpacked by: JESSICA RIGDON  
 Cooler Received on 9-6-24 Opened on 9-6-24

FedEx: 1<sup>st</sup> Grd  UPS FAS Waypoint Client Drop Off Eurofins Courier Other \_\_\_\_\_  
 Receipt After-hours Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

Eurofins Cooler # EC Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used:  Bubble Wrap  Foam  Plastic Bag  None  Other \_\_\_\_\_

COOLANT:  Wet Ice  Blue Ice  Dry Ice  Water  None  See Multiple Cooler Form  
 1 Cooler temperature upon receipt \_\_\_\_\_  
 IR GUN # 19 (CF +1.0 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1  
 -Were the seals on the outside of the cooler(s) signed & dated?  Yes  No  NA  
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?  Yes  No  NA  
 -Were tamper/custody seals intact and uncompromised?  Yes  No  NA  
 3 Shippers' packing slip attached to the cooler(s)?  Yes  No  NA  
 4 Did custody papers accompany the sample(s)?  Yes  No  NA  
 5 Were the custody papers relinquished & signed in the appropriate place?  Yes  No  NA  
 6 Was/were the person(s) who collected the samples clearly identified on the COC?  Yes  No  NA  
 7 Did all bottles arrive in good condition (Unbroken)?  Yes  No  NA  
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?  Yes  No  NA  
 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?  Yes  No  NA  
 10 Were correct bottle(s) used for the test(s) indicated?  Yes  No  NA  
 11 Sufficient quantity received to perform indicated analyses?  Yes  No  NA  
 12. Are these work share samples and all listed on the COC?  Yes  No  NA  
 If yes, Questions 13-17 have been checked at the originating laboratory

Tests that are not checked for pH by Receiving:  
 VOAs  
 Oil and Grease  
 TOC

13 Were all preserved sample(s) at the correct pH upon receipt?  Yes  No  NA pH Strip Lot# HC442471  
 14 Were VOAs on the COC?  Yes  No  NA  
 15 Were air bubbles >6 mm in any VOA vials?  Larger than this  Yes  No  NA  
 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_  Yes  No  NA  
 17 Was a LL Hg or Me Hg trip blank present?  Yes  No  NA  
 Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_  
 Concerning \_\_\_\_\_

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES  additional next page Samples processed by: \_\_\_\_\_

19. SAMPLE CONDITION  
 Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired  
 Sample(s) \_\_\_\_\_ were received in a broken container  
 Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION  
 Sample(s) \_\_\_\_\_ were further preserved in the laboratory  
 Time preserved \_\_\_\_\_ Preservative(s) added/Lot number(s) \_\_\_\_\_  
 VOA Sample Preservation - Date/Time VOAs Frozen \_\_\_\_\_



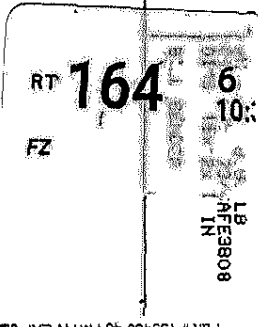
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SAMPLE CONTROL  
 EUROFINS ENVIRONMENT TESTING  
 10 HAZELWOOD DRIVE  
 BUFFALO, NY 142292223  
 UNITED STATES US

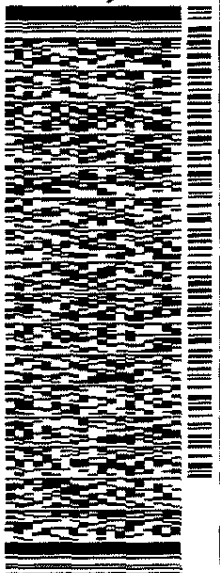
TO  
**SAMPLE RECEIPT**  
**EUROFINS CLEVELAND**  
**180 S VAN BUREN AVE**

**BARBERTON OH 442033543**

(800) 497-8898  
 REF: BARBERTON



Part # 159403-434 MTYV EXP 02/25

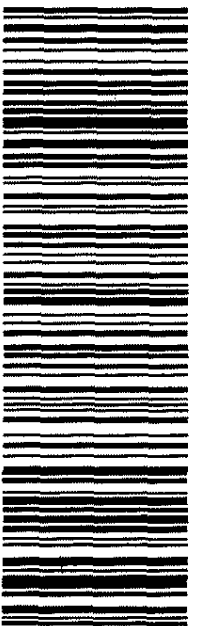


TRK# 7463 0658 2376  
 0201

**FRI - 06 SEP 10:30A**  
**PRIORITY OVERNIGHT**

**NX CAKA**

44203  
 OH-US CLE



## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-223087-1

**Login Number: 223087**

**List Number: 1**

**Creator: Wallace, Cameron**

**List Source: Eurofins Buffalo**

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

# Isotope Dilution Summary

Client: New York State D.E.C.  
 Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

## Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
480-223087-1	DUP	127	139 *5+	119	130	127	126	123	105
480-223087-2	MW-1	101	112	98.1	99.0	104	104	106	99.2
480-223087-3	MW-2	118	120	108	107	116	118	124	108
480-223087-3 MS	MW-2 MS	88.0	95.3	88.4	91.1	92.9	95.7	93.5	83.0
480-223087-3 MSD	MW-2 MSD	85.1	91.2	83.6	86.7	89.7	96.8	99.9	88.0
LCS 240-626249/3-A	Lab Control Sample	126	139 *5+	117	122	124	129	128	118
LLCS 240-626249/2-A	Lab Control Sample	84.5	87.0	75.5	81.2	78.6	83.8	85.7	81.1
MB 240-626249/1-A	Method Blank	94.6	89.9	91.6	93.2	93.9	91.6	91.9	85.7

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)	M242FTS (40-200)
480-223087-1	DUP	109	158 *5+	139 *5+	112	102	98.7	127	262 *5+
480-223087-2	MW-1	110	110	105	106	92.7	102	162 *5+	115
480-223087-3	MW-2	123	140 *5+	126	113	98.8	116	136 *5+	255 *5+
480-223087-3 MS	MW-2 MS	90.4	107	99.5	96.1	83.7	90.0	127	187
480-223087-3 MSD	MW-2 MSD	98.1	106	101	93.1	79.3	88.8	130	187
LCS 240-626249/3-A	Lab Control Sample	124	135	133 *5+	126	114	122	236 *5+	140
LLCS 240-626249/2-A	Lab Control Sample	96.9	97.3	91.0	83.3	75.5	83.9	164 *5+	93.4
MB 240-626249/1-A	Method Blank	96.9	102	97.8	93.4	85.1	93.5	164 *5+	112

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFm (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDoDA (10-130)
480-223087-1	DUP	167	132	141 *5+	57.5	48.0	64.1	74.3	105
480-223087-2	MW-1	107	105	105	86.3	87.5	77.4	74.4	104
480-223087-3	MW-2	158	129	108	90.4	87.1	79.0	82.9	112
480-223087-3 MS	MW-2 MS	125	101	96.6	68.9	60.7	63.4	64.6	89.4
480-223087-3 MSD	MW-2 MSD	122	102	94.3	73.0	63.7	63.8	65.9	91.0
LCS 240-626249/3-A	Lab Control Sample	130	130	126	83.3	76.5	82.5	85.0	124
LLCS 240-626249/2-A	Lab Control Sample	91.3	92.6	80.9	68.5	67.2	56.9	57.5	84.1
MB 240-626249/1-A	Method Blank	99.6	101	94.5	69.6	67.0	60.7	57.0	85.1

#### Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- PFOSA = 13C8 PFOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS

# Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 480-223087-1

Project/Site: Pound Ridge Spill #2400692 PIN H7411

M282FTS = M2-8:2 FTS  
HFPODA = 13C3 HFPO-DA  
NMFm = d7-N-MeFOSE-M  
NEFM = d9-N-EtFOSE-M  
d5NPFSA = d5-NEtPFOSA  
d3NMFSA = D3-NMeFOSA  
PFDoDA = 13C2-PFDoDA

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