

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Bennington, VT - Groundwater Analysis

JOB NUMBER

480-213426-1

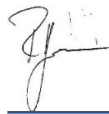
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Job Notes

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Authorization



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Definitions/Glossary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Job ID: 480-213426-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-213426-1

Receipt

The samples were received on 10/6/2023 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.3° C, 3.5° C and 3.8° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-686636 recovered above the upper control limit for Carbon tetrachloride and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: ERM-12-20231004-01 (480-213426-12).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-686636 recovered outside control limits for the following analyte: Bromoform. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The associated sample is impacted: ERM-12-20231004-01 (480-213426-12).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: ERM-12-20231004-01 (480-213426-12). Elevated reporting limits (RLs) are provided.

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

LCMS

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 200-196354.

Method 1633: The "I" qualifier means the transition mass ratio for the indicated analytes were outside of the established ratio limits. The qualitative identification of the analytes have some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. The affected samples are DUP-001-20231004-01 (480-213426-10) and ERM-11S-20231004-01 (480-213426-11) in analytical batch (280-630484).

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

Organic Prep

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

Detection Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: TB-20231003-01

Lab Sample ID: 480-213426-1

No Detections.

Client Sample ID: FB-20231003-01

Lab Sample ID: 480-213426-2

No Detections.

Client Sample ID: MW-102-20231003-01

Lab Sample ID: 480-213426-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.8	J	7.3	1.8	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	3.9		1.8	0.59	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.51	J	1.8	0.28	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.0	J	1.8	0.46	ng/L	1		Draft 1633	Total/NA

Client Sample ID: MW-104-(5-10)20231003-01

Lab Sample ID: 480-213426-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.2		1.0	0.34	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	2.3	J	7.5	1.9	ng/L	1		Draft 1633	Total/NA
Perfluoropentanoic acid (PFPeA)	1.4	J	3.8	0.94	ng/L	1		Draft 1633	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		1.9	0.47	ng/L	1		Draft 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0		1.9	0.49	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	22		1.9	0.60	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.6		1.9	0.28	ng/L	1		Draft 1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.74	J	1.9	0.54	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.6		1.9	0.47	ng/L	1		Draft 1633	Total/NA

Client Sample ID: MW-104-(10-15)20231003-01

Lab Sample ID: 480-213426-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.4		1.0	0.34	ug/L	1		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.4		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	20		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	2.3	J	7.3	1.8	ng/L	1		Draft 1633	Total/NA
Perfluoropentanoic acid (PFPeA)	1.4	J	3.7	0.92	ng/L	1		Draft 1633	Total/NA
Perfluorohexanoic acid (PFHxA)	2.1		1.8	0.46	ng/L	1		Draft 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.1		1.8	0.48	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	22		1.8	0.59	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.5		1.8	0.28	ng/L	1		Draft 1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.75	J	1.8	0.52	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.6		1.8	0.46	ng/L	1		Draft 1633	Total/NA

Client Sample ID: MW-103-(8-13)20231003-01

Lab Sample ID: 480-213426-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.0		1.0	0.34	ug/L	1		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.5		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.7		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.9		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	34		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	3.2	J	7.3	1.8	ng/L	1		Draft 1633	Total/NA
Perfluorohexanoic acid (PFHxA)	1.7	J	1.8	0.46	ng/L	1		Draft 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.6		1.8	0.48	ng/L	1		Draft 1633	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-103-(8-13)20231003-01 (Continued)

Lab Sample ID: 480-213426-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	40		1.8	0.58	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.8	0.27	ng/L	1		Draft 1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.71	J	1.8	0.52	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.0		1.8	0.46	ng/L	1		Draft 1633	Total/NA

Client Sample ID: MW-103-(13-18)20231003-01

Lab Sample ID: 480-213426-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.0		1.0	0.34	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	3.1	J	7.5	1.9	ng/L	1		Draft 1633	Total/NA
Perfluorohexanoic acid (PFHxA)	1.5	J	1.9	0.47	ng/L	1		Draft 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.6		1.9	0.49	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	34		1.9	0.60	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9	0.28	ng/L	1		Draft 1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.79	J	1.9	0.53	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.9	0.47	ng/L	1		Draft 1633	Total/NA

Client Sample ID: ERM-8-20231004-01

Lab Sample ID: 480-213426-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.72	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	0.89	J	1.0	0.46	ug/L	1		8260C	Total/NA
Perfluorohexanoic acid (PFHxA)	0.77	J	1.9	0.46	ng/L	1		Draft 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.2	J	1.9	0.48	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	7.4		1.9	0.59	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.75	J	1.9	0.28	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.57	J	1.9	0.46	ng/L	1		Draft 1633	Total/NA

Client Sample ID: ERM-16-20231004-01

Lab Sample ID: 480-213426-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.46	J	1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	17		1.0	0.36	ug/L	1		8260C	Total/NA
Perfluoropentanoic acid (PFPeA)	1.8	J	3.8	0.94	ng/L	1		Draft 1633	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.9	0.47	ng/L	1		Draft 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.9	0.49	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	11		1.9	0.60	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.7	J	1.9	0.28	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.6	J	1.9	0.47	ng/L	1		Draft 1633	Total/NA

Client Sample ID: DUP-001-20231004-01

Lab Sample ID: 480-213426-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.47	J	1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	18		1.0	0.36	ug/L	1		8260C	Total/NA
Perfluoropentanoic acid (PFPeA)	1.8	J	3.8	0.94	ng/L	1		Draft 1633	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		1.9	0.47	ng/L	1		Draft 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.9	0.49	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	10		1.9	0.60	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.7	J	1.9	0.28	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.0	I	1.9	0.47	ng/L	1		Draft 1633	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-11S-20231004-01

Lab Sample ID: 480-213426-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.80	J I	1.9	0.48	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.2	J	1.9	0.61	ng/L	1		Draft 1633	Total/NA

Client Sample ID: ERM-12-20231004-01

Lab Sample ID: 480-213426-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	2.5		1.0	0.23	ug/L	1		8260C	Total/NA
Tetrachloroethene	110	E	1.0	0.36	ug/L	1		8260C	Total/NA
Tetrachloroethene - DL	100		4.0	1.4	ug/L	4		8260C	Total/NA
Perfluorohexanoic acid (PFHxA)	0.58	J	1.8	0.46	ng/L	1		Draft 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.0	J	1.8	0.47	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	11		1.8	0.58	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.8	0.27	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.4	J	1.8	0.46	ng/L	1		Draft 1633	Total/NA

Client Sample ID: ERM-13-20231004-01

Lab Sample ID: 480-213426-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.63	J	1.0	0.34	ug/L	1		8260C	Total/NA
Perfluoropentanoic acid (PFPeA)	0.98	J	3.8	0.95	ng/L	1		Draft 1633	Total/NA
Perfluorohexanoic acid (PFHxA)	1.2	J	1.9	0.47	ng/L	1		Draft 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.9	0.49	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	11		1.9	0.61	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9	0.28	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.9	0.47	ng/L	1		Draft 1633	Total/NA

Client Sample ID: WASTE SAMPLE-20231004-01

Lab Sample ID: 480-213426-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.1	J	7.5	1.9	ng/L	1		Draft 1633	Total/NA
Perfluoropentanoic acid (PFPeA)	1.0	J	3.7	0.94	ng/L	1		Draft 1633	Total/NA
Perfluorohexanoic acid (PFHxA)	1.5	J	1.9	0.47	ng/L	1		Draft 1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.6	J	1.9	0.49	ng/L	1		Draft 1633	Total/NA
Perfluorooctanoic acid (PFOA)	20		1.9	0.60	ng/L	1		Draft 1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.9	0.28	ng/L	1		Draft 1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.9	0.47	ng/L	1		Draft 1633	Total/NA
6:2 FTS	4.6	J	7.5	2.3	ng/L	1		Draft 1633	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: TB-20231003-01

Lab Sample ID: 480-213426-1

Date Collected: 10/03/23 08:00

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 12:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 12:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 12:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 12:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 12:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 12:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 12:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 12:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 12:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 12:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 12:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 12:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 12:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 12:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 12:12	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 12:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 12:12	1
Acetone	ND		10	3.0	ug/L			10/07/23 12:12	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 12:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 12:12	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 12:12	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 12:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 12:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 12:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 12:12	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 12:12	1
Chloroform	ND		1.0	0.34	ug/L			10/07/23 12:12	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 12:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 12:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 12:12	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 12:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 12:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 12:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 12:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 12:12	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 12:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 12:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 12:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 12:12	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 12:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/07/23 12:12	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 12:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 12:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 12:12	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 12:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 12:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 12:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 12:12	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: TB-20231003-01

Lab Sample ID: 480-213426-1

Date Collected: 10/03/23 08:00

Matrix: Water

Date Received: 10/06/23 11:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/07/23 12:12	1
4-Bromofluorobenzene (Surr)	109		73 - 120		10/07/23 12:12	1
Dibromofluoromethane (Surr)	103		75 - 123		10/07/23 12:12	1
Toluene-d8 (Surr)	106		80 - 120		10/07/23 12:12	1

Client Sample ID: FB-20231003-01

Lab Sample ID: 480-213426-2

Date Collected: 10/03/23 08:10

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.1	1.8	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluoropentanoic acid (PFPeA)	ND		3.6	0.89	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.57	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.27	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.51	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.36	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.36	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.80	ng/L		10/19/23 10:34	10/20/23 12:42	1
4:2 FTS	ND		7.1	1.5	ng/L		10/19/23 10:34	10/20/23 12:42	1
6:2 FTS	ND		7.1	2.2	ng/L		10/19/23 10:34	10/20/23 12:42	1
8:2 FTS	ND		7.1	2.3	ng/L		10/19/23 10:34	10/20/23 12:42	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
NMeFOSA	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
NEtFOSA	ND		1.8	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
NMeFOSAA	ND		3.6	1.1	ng/L		10/19/23 10:34	10/20/23 12:42	1
NEtFOSAA	ND		1.8	0.63	ng/L		10/19/23 10:34	10/20/23 12:42	1
NMeFOSE	ND		18	4.5	ng/L		10/19/23 10:34	10/20/23 12:42	1
NEtFOSE	ND		18	4.5	ng/L		10/19/23 10:34	10/20/23 12:42	1
HFPO-DA (GenX)	ND		7.1	1.8	ng/L		10/19/23 10:34	10/20/23 12:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.1	1.3	ng/L		10/19/23 10:34	10/20/23 12:42	1
PFMBA	ND		3.6	0.89	ng/L		10/19/23 10:34	10/20/23 12:42	1
NFDHA	ND		3.6	0.89	ng/L		10/19/23 10:34	10/20/23 12:42	1
PFMPA	ND		3.6	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
9CI-PF3ONS	ND		7.1	0.89	ng/L		10/19/23 10:34	10/20/23 12:42	1
11CI-PF3OUdS	ND		7.1	1.8	ng/L		10/19/23 10:34	10/20/23 12:42	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: FB-20231003-01

Lab Sample ID: 480-213426-2

Date Collected: 10/03/23 08:10

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFEESA	ND		3.6	0.45	ng/L		10/19/23 10:34	10/20/23 12:42	1
3:3 FTCA	ND		8.9	1.3	ng/L		10/19/23 10:34	10/20/23 12:42	1
5:3 FTCA	ND		45	8.9	ng/L		10/19/23 10:34	10/20/23 12:42	1
7:3 FTCA	ND		45	8.9	ng/L		10/19/23 10:34	10/20/23 12:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	94		10 - 130				10/19/23 10:34	10/20/23 12:42	1
13C5 PFPeA	98		35 - 150				10/19/23 10:34	10/20/23 12:42	1
13C5 PFHxA	96		55 - 150				10/19/23 10:34	10/20/23 12:42	1
13C4 PFHpA	93		55 - 150				10/19/23 10:34	10/20/23 12:42	1
13C8 PFOA	89		60 - 140				10/19/23 10:34	10/20/23 12:42	1
13C9 PFNA	88		55 - 140				10/19/23 10:34	10/20/23 12:42	1
13C6 PFDA	87		50 - 140				10/19/23 10:34	10/20/23 12:42	1
13C7 PFUnA	88		30 - 140				10/19/23 10:34	10/20/23 12:42	1
13C2 PFDoA	80		10 - 150				10/19/23 10:34	10/20/23 12:42	1
13C2 PFTeDA	67		10 - 130				10/19/23 10:34	10/20/23 12:42	1
13C3 PFBS	97		55 - 150				10/19/23 10:34	10/20/23 12:42	1
13C3 PFHxS	92		55 - 150				10/19/23 10:34	10/20/23 12:42	1
13C8 PFOS	88		45 - 140				10/19/23 10:34	10/20/23 12:42	1
13C8 FOSA	91		30 - 130				10/19/23 10:34	10/20/23 12:42	1
d3-NMeFOSAA	101		45 - 200				10/19/23 10:34	10/20/23 12:42	1
d5-NEtFOSAA	102		10 - 200				10/19/23 10:34	10/20/23 12:42	1
M2-4:2 FTS	100		60 - 200				10/19/23 10:34	10/20/23 12:42	1
M2-6:2 FTS	97		60 - 200				10/19/23 10:34	10/20/23 12:42	1
M2-8:2 FTS	96		50 - 200				10/19/23 10:34	10/20/23 12:42	1
13C3 HFPO-DA	95		25 - 160				10/19/23 10:34	10/20/23 12:42	1
d7-N-MeFOSE-M	112		10 - 150				10/19/23 10:34	10/20/23 12:42	1
d9-N-EtFOSE-M	109		10 - 150				10/19/23 10:34	10/20/23 12:42	1
d5-NEtPFOSA	87		10 - 130				10/19/23 10:34	10/20/23 12:42	1
d3-NMePFOSA	89		15 - 130				10/19/23 10:34	10/20/23 12:42	1

Client Sample ID: MW-102-20231003-01

Lab Sample ID: 480-213426-3

Date Collected: 10/03/23 10:15

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 12:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 12:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 12:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 12:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 12:34	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 12:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 12:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 12:34	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 12:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 12:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 12:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 12:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 12:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 12:34	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-102-20231003-01

Lab Sample ID: 480-213426-3

Date Collected: 10/03/23 10:15

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 12:34	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 12:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 12:34	1
Acetone	ND		10	3.0	ug/L			10/07/23 12:34	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 12:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 12:34	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 12:34	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 12:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 12:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 12:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 12:34	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 12:34	1
Chloroform	ND		1.0	0.34	ug/L			10/07/23 12:34	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 12:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 12:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 12:34	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 12:34	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 12:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 12:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 12:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 12:34	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 12:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 12:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 12:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 12:34	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 12:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/07/23 12:34	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 12:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 12:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 12:34	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 12:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 12:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 12:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/07/23 12:34	1
4-Bromofluorobenzene (Surr)	110		73 - 120		10/07/23 12:34	1
Dibromofluoromethane (Surr)	103		75 - 123		10/07/23 12:34	1
Toluene-d8 (Surr)	106		80 - 120		10/07/23 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.8	J	7.3	1.8	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluoropentanoic acid (PFPeA)	ND		3.7	0.92	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.48	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorooctanoic acid (PFOA)	3.9		1.8	0.59	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-102-20231003-01

Lab Sample ID: 480-213426-3

Date Collected: 10/03/23 10:15

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorobutanesulfonic acid (PFBS)	0.51	J	1.8	0.28	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.52	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.37	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorooctanesulfonic acid (PFOS)	1.0	J	1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.37	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.83	ng/L		10/19/23 10:34	10/20/23 13:01	1
4:2 FTS	ND		7.3	1.6	ng/L		10/19/23 10:34	10/20/23 13:01	1
6:2 FTS	ND		7.3	2.3	ng/L		10/19/23 10:34	10/20/23 13:01	1
8:2 FTS	ND		7.3	2.4	ng/L		10/19/23 10:34	10/20/23 13:01	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
NMeFOSA	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
NEtFOSA	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
NMeFOSAA	ND		3.7	1.1	ng/L		10/19/23 10:34	10/20/23 13:01	1
NEtFOSAA	ND		1.8	0.64	ng/L		10/19/23 10:34	10/20/23 13:01	1
NMeFOSE	ND		18	4.6	ng/L		10/19/23 10:34	10/20/23 13:01	1
NEtFOSE	ND		18	4.6	ng/L		10/19/23 10:34	10/20/23 13:01	1
HFPO-DA (GenX)	ND		7.3	1.8	ng/L		10/19/23 10:34	10/20/23 13:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4	ng/L		10/19/23 10:34	10/20/23 13:01	1
PFMBA	ND		3.7	0.92	ng/L		10/19/23 10:34	10/20/23 13:01	1
NFDHA	ND		3.7	0.92	ng/L		10/19/23 10:34	10/20/23 13:01	1
PFMPA	ND		3.7	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
9CI-PF3ONS	ND		7.3	0.92	ng/L		10/19/23 10:34	10/20/23 13:01	1
11CI-PF3OUdS	ND		7.3	1.8	ng/L		10/19/23 10:34	10/20/23 13:01	1
PFEESA	ND		3.7	0.46	ng/L		10/19/23 10:34	10/20/23 13:01	1
3:3 FTCA	ND		9.2	1.4	ng/L		10/19/23 10:34	10/20/23 13:01	1
5:3 FTCA	ND		46	9.2	ng/L		10/19/23 10:34	10/20/23 13:01	1
7:3 FTCA	ND		46	9.2	ng/L		10/19/23 10:34	10/20/23 13:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		10 - 130	10/19/23 10:34	10/20/23 13:01	1
13C5 PFPeA	99		35 - 150	10/19/23 10:34	10/20/23 13:01	1
13C5 PFHxA	98		55 - 150	10/19/23 10:34	10/20/23 13:01	1
13C4 PFHpA	101		55 - 150	10/19/23 10:34	10/20/23 13:01	1
13C8 PFOA	100		60 - 140	10/19/23 10:34	10/20/23 13:01	1
13C9 PFNA	88		55 - 140	10/19/23 10:34	10/20/23 13:01	1
13C6 PFDA	92		50 - 140	10/19/23 10:34	10/20/23 13:01	1
13C7 PFUnA	95		30 - 140	10/19/23 10:34	10/20/23 13:01	1
13C2 PFDoA	86		10 - 150	10/19/23 10:34	10/20/23 13:01	1
13C2 PFTeDA	71		10 - 130	10/19/23 10:34	10/20/23 13:01	1
13C3 PFBS	100		55 - 150	10/19/23 10:34	10/20/23 13:01	1

Eurofins Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-102-20231003-01

Lab Sample ID: 480-213426-3

Date Collected: 10/03/23 10:15

Matrix: Water

Date Received: 10/06/23 11:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	91		55 - 150	10/19/23 10:34	10/20/23 13:01	1
13C8 PFOS	90		45 - 140	10/19/23 10:34	10/20/23 13:01	1
13C8 FOSA	100		30 - 130	10/19/23 10:34	10/20/23 13:01	1
d3-NMeFOSAA	108		45 - 200	10/19/23 10:34	10/20/23 13:01	1
d5-NEtFOSAA	114		10 - 200	10/19/23 10:34	10/20/23 13:01	1
M2-4:2 FTS	113		60 - 200	10/19/23 10:34	10/20/23 13:01	1
M2-6:2 FTS	101		60 - 200	10/19/23 10:34	10/20/23 13:01	1
M2-8:2 FTS	103		50 - 200	10/19/23 10:34	10/20/23 13:01	1
13C3 HFPO-DA	90		25 - 160	10/19/23 10:34	10/20/23 13:01	1
d7-N-MeFOSE-M	109		10 - 150	10/19/23 10:34	10/20/23 13:01	1
d9-N-EtFOSE-M	108		10 - 150	10/19/23 10:34	10/20/23 13:01	1
d5-NEtPFOSA	83		10 - 130	10/19/23 10:34	10/20/23 13:01	1
d3-NMePFOSA	83		15 - 130	10/19/23 10:34	10/20/23 13:01	1

Client Sample ID: MW-104-(5-10)20231003-01

Lab Sample ID: 480-213426-4

Date Collected: 10/03/23 12:40

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 12:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 12:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 12:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 12:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 12:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 12:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 12:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 12:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 12:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 12:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 12:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 12:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 12:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 12:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 12:56	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 12:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 12:56	1
Acetone	ND		10	3.0	ug/L			10/07/23 12:56	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 12:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 12:56	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 12:56	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 12:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 12:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 12:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 12:56	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 12:56	1
Chloroform	2.2		1.0	0.34	ug/L			10/07/23 12:56	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 12:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 12:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 12:56	1

Eurofins Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-104-(5-10)20231003-01

Lab Sample ID: 480-213426-4

Date Collected: 10/03/23 12:40

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 12:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 12:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 12:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 12:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 12:56	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 12:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 12:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 12:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 12:56	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 12:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/07/23 12:56	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 12:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 12:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 12:56	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 12:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 12:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 12:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/07/23 12:56	1
4-Bromofluorobenzene (Surr)	108		73 - 120		10/07/23 12:56	1
Dibromofluoromethane (Surr)	105		75 - 123		10/07/23 12:56	1
Toluene-d8 (Surr)	109		80 - 120		10/07/23 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.3	J	7.5	1.9	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluoropentanoic acid (PFPeA)	1.4	J	3.8	0.94	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorohexanoic acid (PFHxA)	2.0		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluoroheptanoic acid (PFHpA)	2.0		1.9	0.49	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorooctanoic acid (PFOA)	22		1.9	0.60	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorobutanesulfonic acid (PFBS)	2.6		1.9	0.28	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorohexanesulfonic acid (PFHxS)	0.74	J	1.9	0.54	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorooctanesulfonic acid (PFOS)	2.6		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-104-(5-10)20231003-01

Lab Sample ID: 480-213426-4

Date Collected: 10/03/23 12:40

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.85	ng/L		10/19/23 10:34	10/20/23 13:20	1
4:2 FTS	ND		7.5	1.6	ng/L		10/19/23 10:34	10/20/23 13:20	1
6:2 FTS	ND		7.5	2.4	ng/L		10/19/23 10:34	10/20/23 13:20	1
8:2 FTS	ND		7.5	2.5	ng/L		10/19/23 10:34	10/20/23 13:20	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
NMeFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
NEtFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
NMeFOSAA	ND		3.8	1.1	ng/L		10/19/23 10:34	10/20/23 13:20	1
NEtFOSAA	ND		1.9	0.66	ng/L		10/19/23 10:34	10/20/23 13:20	1
NMeFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 13:20	1
NEtFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 13:20	1
HFPO-DA (GenX)	ND		7.5	1.9	ng/L		10/19/23 10:34	10/20/23 13:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.5	1.4	ng/L		10/19/23 10:34	10/20/23 13:20	1
PFMBA	ND		3.8	0.94	ng/L		10/19/23 10:34	10/20/23 13:20	1
NFDHA	ND		3.8	0.94	ng/L		10/19/23 10:34	10/20/23 13:20	1
PFMPA	ND		3.8	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
9CI-PF3ONS	ND		7.5	0.94	ng/L		10/19/23 10:34	10/20/23 13:20	1
11CI-PF3OUdS	ND		7.5	1.9	ng/L		10/19/23 10:34	10/20/23 13:20	1
PFEESA	ND		3.8	0.47	ng/L		10/19/23 10:34	10/20/23 13:20	1
3:3 FTCA	ND		9.4	1.4	ng/L		10/19/23 10:34	10/20/23 13:20	1
5:3 FTCA	ND		47	9.4	ng/L		10/19/23 10:34	10/20/23 13:20	1
7:3 FTCA	ND		47	9.4	ng/L		10/19/23 10:34	10/20/23 13:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		10 - 130	10/19/23 10:34	10/20/23 13:20	1
13C5 PFPeA	98		35 - 150	10/19/23 10:34	10/20/23 13:20	1
13C5 PFHxA	96		55 - 150	10/19/23 10:34	10/20/23 13:20	1
13C4 PFHpA	95		55 - 150	10/19/23 10:34	10/20/23 13:20	1
13C8 PFOA	92		60 - 140	10/19/23 10:34	10/20/23 13:20	1
13C9 PFNA	93		55 - 140	10/19/23 10:34	10/20/23 13:20	1
13C6 PFDA	95		50 - 140	10/19/23 10:34	10/20/23 13:20	1
13C7 PFUnA	94		30 - 140	10/19/23 10:34	10/20/23 13:20	1
13C2 PFDoA	88		10 - 150	10/19/23 10:34	10/20/23 13:20	1
13C2 PFTeDA	84		10 - 130	10/19/23 10:34	10/20/23 13:20	1
13C3 PFBS	95		55 - 150	10/19/23 10:34	10/20/23 13:20	1
13C3 PFHxS	88		55 - 150	10/19/23 10:34	10/20/23 13:20	1
13C8 PFOS	76		45 - 140	10/19/23 10:34	10/20/23 13:20	1
13C8 FOSA	96		30 - 130	10/19/23 10:34	10/20/23 13:20	1
d3-NMeFOSAA	95		45 - 200	10/19/23 10:34	10/20/23 13:20	1
d5-NEtFOSAA	101		10 - 200	10/19/23 10:34	10/20/23 13:20	1
M2-4:2 FTS	103		60 - 200	10/19/23 10:34	10/20/23 13:20	1
M2-6:2 FTS	96		60 - 200	10/19/23 10:34	10/20/23 13:20	1
M2-8:2 FTS	92		50 - 200	10/19/23 10:34	10/20/23 13:20	1
13C3 HFPO-DA	93		25 - 160	10/19/23 10:34	10/20/23 13:20	1
d7-N-MeFOSE-M	106		10 - 150	10/19/23 10:34	10/20/23 13:20	1
d9-N-EtFOSE-M	102		10 - 150	10/19/23 10:34	10/20/23 13:20	1
d5-NEtPFOSA	86		10 - 130	10/19/23 10:34	10/20/23 13:20	1
d3-NMePFOSA	83		15 - 130	10/19/23 10:34	10/20/23 13:20	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-104-(10-15)20231003-01

Lab Sample ID: 480-213426-5

Date Collected: 10/03/23 13:35

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 13:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 13:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 13:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 13:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 13:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 13:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 13:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 13:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 13:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 13:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 13:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 13:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 13:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 13:18	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 13:18	1
Acetone	ND		10	3.0	ug/L			10/07/23 13:18	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 13:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 13:18	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 13:18	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 13:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 13:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 13:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 13:18	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 13:18	1
Chloroform	2.4		1.0	0.34	ug/L			10/07/23 13:18	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 13:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 13:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 13:18	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 13:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 13:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 13:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 13:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 13:18	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 13:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 13:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 13:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 13:18	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 13:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/07/23 13:18	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 13:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 13:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 13:18	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 13:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 13:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 13:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 13:18	1

Eurofins Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-104-(10-15)20231003-01

Lab Sample ID: 480-213426-5

Date Collected: 10/03/23 13:35

Matrix: Water

Date Received: 10/06/23 11:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/07/23 13:18	1
4-Bromofluorobenzene (Surr)	112		73 - 120		10/07/23 13:18	1
Dibromofluoromethane (Surr)	104		75 - 123		10/07/23 13:18	1
Toluene-d8 (Surr)	107		80 - 120		10/07/23 13:18	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.4		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluorodecanoic acid (PFDA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluoroheptanoic acid (PFHpA)	2.0		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluorononanoic acid (PFNA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluorooctanesulfonic acid (PFOS)	2.4		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluorooctanoic acid (PFOA)	20		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	96		50 - 150				10/12/23 07:51	10/13/23 00:19	1
13C2 PFDoA	87		50 - 150				10/12/23 07:51	10/13/23 00:19	1
13C2 PFHxA	99		50 - 150				10/12/23 07:51	10/13/23 00:19	1
13C2 PFTeDA	83		50 - 150				10/12/23 07:51	10/13/23 00:19	1
13C2 PFUnA	85		50 - 150				10/12/23 07:51	10/13/23 00:19	1
13C3 PFBS	90		50 - 150				10/12/23 07:51	10/13/23 00:19	1
13C4 PFHpA	94		50 - 150				10/12/23 07:51	10/13/23 00:19	1
13C4 PFOA	101		50 - 150				10/12/23 07:51	10/13/23 00:19	1
13C4 PFOS	94		50 - 150				10/12/23 07:51	10/13/23 00:19	1
13C5 PFNA	95		50 - 150				10/12/23 07:51	10/13/23 00:19	1
18O2 PFHxS	94		50 - 150				10/12/23 07:51	10/13/23 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.3	J	7.3	1.8	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluoropentanoic acid (PFPeA)	1.4	J	3.7	0.92	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorohexanoic acid (PFHxA)	2.1		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluoroheptanoic acid (PFHpA)	2.1		1.8	0.48	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorooctanoic acid (PFOA)	22		1.8	0.59	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorobutanesulfonic acid (PFBS)	2.5		1.8	0.28	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-104-(10-15)20231003-01

Lab Sample ID: 480-213426-5

Date Collected: 10/03/23 13:35

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.75	J	1.8	0.52	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.37	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorooctanesulfonic acid (PFOS)	2.6		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.37	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.83	ng/L		10/19/23 10:34	10/20/23 13:40	1
4:2 FTS	ND		7.3	1.6	ng/L		10/19/23 10:34	10/20/23 13:40	1
6:2 FTS	ND		7.3	2.3	ng/L		10/19/23 10:34	10/20/23 13:40	1
8:2 FTS	ND		7.3	2.4	ng/L		10/19/23 10:34	10/20/23 13:40	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
NMeFOSA	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
NEtFOSA	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
NMeFOSAA	ND		3.7	1.1	ng/L		10/19/23 10:34	10/20/23 13:40	1
NEtFOSAA	ND		1.8	0.64	ng/L		10/19/23 10:34	10/20/23 13:40	1
NMeFOSE	ND		18	4.6	ng/L		10/19/23 10:34	10/20/23 13:40	1
NEtFOSE	ND		18	4.6	ng/L		10/19/23 10:34	10/20/23 13:40	1
HFPO-DA (GenX)	ND		7.3	1.8	ng/L		10/19/23 10:34	10/20/23 13:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4	ng/L		10/19/23 10:34	10/20/23 13:40	1
PFMBA	ND		3.7	0.92	ng/L		10/19/23 10:34	10/20/23 13:40	1
NFDHA	ND		3.7	0.92	ng/L		10/19/23 10:34	10/20/23 13:40	1
PFMPA	ND		3.7	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
9Cl-PF3ONS	ND		7.3	0.92	ng/L		10/19/23 10:34	10/20/23 13:40	1
11Cl-PF3OUdS	ND		7.3	1.8	ng/L		10/19/23 10:34	10/20/23 13:40	1
PFEESA	ND		3.7	0.46	ng/L		10/19/23 10:34	10/20/23 13:40	1
3:3 FTCA	ND		9.2	1.4	ng/L		10/19/23 10:34	10/20/23 13:40	1
5:3 FTCA	ND		46	9.2	ng/L		10/19/23 10:34	10/20/23 13:40	1
7:3 FTCA	ND		46	9.2	ng/L		10/19/23 10:34	10/20/23 13:40	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91		10 - 130				10/19/23 10:34	10/20/23 13:40	1
13C5 PFPeA	98		35 - 150				10/19/23 10:34	10/20/23 13:40	1
13C5 PFHxA	95		55 - 150				10/19/23 10:34	10/20/23 13:40	1
13C4 PFHpA	94		55 - 150				10/19/23 10:34	10/20/23 13:40	1
13C8 PFOA	94		60 - 140				10/19/23 10:34	10/20/23 13:40	1
13C9 PFNA	90		55 - 140				10/19/23 10:34	10/20/23 13:40	1
13C6 PFDA	90		50 - 140				10/19/23 10:34	10/20/23 13:40	1
13C7 PFUnA	87		30 - 140				10/19/23 10:34	10/20/23 13:40	1
13C2 PFDoA	79		10 - 150				10/19/23 10:34	10/20/23 13:40	1
13C2 PFTeDA	75		10 - 130				10/19/23 10:34	10/20/23 13:40	1
13C3 PFBS	97		55 - 150				10/19/23 10:34	10/20/23 13:40	1
13C3 PFHxS	92		55 - 150				10/19/23 10:34	10/20/23 13:40	1
13C8 PFOS	83		45 - 140				10/19/23 10:34	10/20/23 13:40	1
13C8 FOSA	95		30 - 130				10/19/23 10:34	10/20/23 13:40	1
d3-NMeFOSAA	105		45 - 200				10/19/23 10:34	10/20/23 13:40	1
d5-NEtFOSAA	113		10 - 200				10/19/23 10:34	10/20/23 13:40	1
M2-4:2 FTS	114		60 - 200				10/19/23 10:34	10/20/23 13:40	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-104-(10-15)20231003-01

Lab Sample ID: 480-213426-5

Date Collected: 10/03/23 13:35

Matrix: Water

Date Received: 10/06/23 11:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	101		60 - 200	10/19/23 10:34	10/20/23 13:40	1
M2-8:2 FTS	103		50 - 200	10/19/23 10:34	10/20/23 13:40	1
13C3 HFPO-DA	95		25 - 160	10/19/23 10:34	10/20/23 13:40	1
d7-N-MeFOSE-M	110		10 - 150	10/19/23 10:34	10/20/23 13:40	1
d9-N-EtFOSE-M	103		10 - 150	10/19/23 10:34	10/20/23 13:40	1
d5-NEtPFOSA	84		10 - 130	10/19/23 10:34	10/20/23 13:40	1
d3-NMePFOSA	83		15 - 130	10/19/23 10:34	10/20/23 13:40	1

Client Sample ID: MW-103-(8-13)20231003-01

Lab Sample ID: 480-213426-6

Date Collected: 10/03/23 15:00

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 13:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 13:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 13:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 13:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 13:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 13:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 13:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 13:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 13:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 13:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 13:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 13:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 13:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 13:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 13:40	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 13:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 13:40	1
Acetone	ND		10	3.0	ug/L			10/07/23 13:40	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 13:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 13:40	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 13:40	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 13:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 13:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 13:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 13:40	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 13:40	1
Chloroform	1.0		1.0	0.34	ug/L			10/07/23 13:40	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 13:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 13:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 13:40	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 13:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 13:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 13:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 13:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 13:40	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 13:40	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-103-(8-13)20231003-01

Lab Sample ID: 480-213426-6

Date Collected: 10/03/23 15:00

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 13:40	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 13:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 13:40	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 13:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/07/23 13:40	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 13:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 13:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 13:40	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 13:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 13:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 13:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/07/23 13:40	1
4-Bromofluorobenzene (Surr)	114		73 - 120		10/07/23 13:40	1
Dibromofluoromethane (Surr)	103		75 - 123		10/07/23 13:40	1
Toluene-d8 (Surr)	106		80 - 120		10/07/23 13:40	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.5		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluorodecanoic acid (PFDA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluoroheptanoic acid (PFHpA)	2.7		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluorononanoic acid (PFNA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluorooctanesulfonic acid (PFOS)	1.9		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluorooctanoic acid (PFOA)	34		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.8	ng/L		10/12/23 07:51	10/13/23 00:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	92		50 - 150	10/12/23 07:51	10/13/23 00:27	1
13C2 PFDoA	90		50 - 150	10/12/23 07:51	10/13/23 00:27	1
13C2 PFHxA	94		50 - 150	10/12/23 07:51	10/13/23 00:27	1
13C2 PFTeDA	87		50 - 150	10/12/23 07:51	10/13/23 00:27	1
13C2 PFUnA	86		50 - 150	10/12/23 07:51	10/13/23 00:27	1
13C3 PFBS	91		50 - 150	10/12/23 07:51	10/13/23 00:27	1
13C4 PFHpA	93		50 - 150	10/12/23 07:51	10/13/23 00:27	1
13C4 PFOA	103		50 - 150	10/12/23 07:51	10/13/23 00:27	1
13C4 PFOS	93		50 - 150	10/12/23 07:51	10/13/23 00:27	1
13C5 PFNA	100		50 - 150	10/12/23 07:51	10/13/23 00:27	1
18O2 PFHxS	95		50 - 150	10/12/23 07:51	10/13/23 00:27	1

Eurofins Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-103-(8-13)20231003-01

Lab Sample ID: 480-213426-6

Date Collected: 10/03/23 15:00

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.2	J	7.3	1.8	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluoropentanoic acid (PFPeA)	ND		3.7	0.91	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorohexanoic acid (PFHxA)	1.7	J	1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluoroheptanoic acid (PFHpA)	2.6		1.8	0.48	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorooctanoic acid (PFOA)	40		1.8	0.58	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorobutanesulfonic acid (PFBS)	2.4		1.8	0.27	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.71	J	1.8	0.52	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.37	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorooctanesulfonic acid (PFOS)	2.0		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.37	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.82	ng/L		10/19/23 10:34	10/20/23 13:59	1
4:2 FTS	ND		7.3	1.6	ng/L		10/19/23 10:34	10/20/23 13:59	1
6:2 FTS	ND		7.3	2.3	ng/L		10/19/23 10:34	10/20/23 13:59	1
8:2 FTS	ND		7.3	2.4	ng/L		10/19/23 10:34	10/20/23 13:59	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
NMeFOSA	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
NEtFOSA	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
NMeFOSAA	ND		3.7	1.1	ng/L		10/19/23 10:34	10/20/23 13:59	1
NEtFOSAA	ND		1.8	0.64	ng/L		10/19/23 10:34	10/20/23 13:59	1
NMeFOSE	ND		18	4.6	ng/L		10/19/23 10:34	10/20/23 13:59	1
NEtFOSE	ND		18	4.6	ng/L		10/19/23 10:34	10/20/23 13:59	1
HFPO-DA (GenX)	ND		7.3	1.8	ng/L		10/19/23 10:34	10/20/23 13:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4	ng/L		10/19/23 10:34	10/20/23 13:59	1
PFMBA	ND		3.7	0.91	ng/L		10/19/23 10:34	10/20/23 13:59	1
NFDHA	ND		3.7	0.91	ng/L		10/19/23 10:34	10/20/23 13:59	1
PFMPA	ND		3.7	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
9Cl-PF3ONS	ND		7.3	0.91	ng/L		10/19/23 10:34	10/20/23 13:59	1
11Cl-PF3OUdS	ND		7.3	1.8	ng/L		10/19/23 10:34	10/20/23 13:59	1
PFEESA	ND		3.7	0.46	ng/L		10/19/23 10:34	10/20/23 13:59	1
3:3 FTCA	ND		9.1	1.4	ng/L		10/19/23 10:34	10/20/23 13:59	1
5:3 FTCA	ND		46	9.1	ng/L		10/19/23 10:34	10/20/23 13:59	1
7:3 FTCA	ND		46	9.1	ng/L		10/19/23 10:34	10/20/23 13:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93		10 - 130				10/19/23 10:34	10/20/23 13:59	1
13C5 PFPeA	92		35 - 150				10/19/23 10:34	10/20/23 13:59	1
13C5 PFHxA	91		55 - 150				10/19/23 10:34	10/20/23 13:59	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-103-(8-13)20231003-01

Lab Sample ID: 480-213426-6

Date Collected: 10/03/23 15:00

Matrix: Water

Date Received: 10/06/23 11:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	86		55 - 150	10/19/23 10:34	10/20/23 13:59	1
13C8 PFOA	101		60 - 140	10/19/23 10:34	10/20/23 13:59	1
13C9 PFNA	95		55 - 140	10/19/23 10:34	10/20/23 13:59	1
13C6 PFDA	93		50 - 140	10/19/23 10:34	10/20/23 13:59	1
13C7 PFUnA	91		30 - 140	10/19/23 10:34	10/20/23 13:59	1
13C2 PFDoA	86		10 - 150	10/19/23 10:34	10/20/23 13:59	1
13C2 PFTeDA	77		10 - 130	10/19/23 10:34	10/20/23 13:59	1
13C3 PFBS	106		55 - 150	10/19/23 10:34	10/20/23 13:59	1
13C3 PFHxS	95		55 - 150	10/19/23 10:34	10/20/23 13:59	1
13C8 PFOS	81		45 - 140	10/19/23 10:34	10/20/23 13:59	1
13C8 FOSA	98		30 - 130	10/19/23 10:34	10/20/23 13:59	1
d3-NMeFOSAA	101		45 - 200	10/19/23 10:34	10/20/23 13:59	1
d5-NEtFOSAA	104		10 - 200	10/19/23 10:34	10/20/23 13:59	1
M2-4:2 FTS	115		60 - 200	10/19/23 10:34	10/20/23 13:59	1
M2-6:2 FTS	105		60 - 200	10/19/23 10:34	10/20/23 13:59	1
M2-8:2 FTS	106		50 - 200	10/19/23 10:34	10/20/23 13:59	1
13C3 HFPO-DA	93		25 - 160	10/19/23 10:34	10/20/23 13:59	1
d7-N-MeFOSE-M	109		10 - 150	10/19/23 10:34	10/20/23 13:59	1
d9-N-EtFOSE-M	107		10 - 150	10/19/23 10:34	10/20/23 13:59	1
d5-NEtPFOSA	90		10 - 130	10/19/23 10:34	10/20/23 13:59	1
d3-NMePFOSA	88		15 - 130	10/19/23 10:34	10/20/23 13:59	1

Client Sample ID: MW-103-(13-18)20231003-01

Lab Sample ID: 480-213426-7

Date Collected: 10/03/23 15:55

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 14:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 14:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 14:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 14:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 14:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 14:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 14:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 14:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 14:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 14:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 14:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 14:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 14:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 14:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 14:02	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 14:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 14:02	1
Acetone	ND		10	3.0	ug/L			10/07/23 14:02	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 14:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 14:02	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 14:02	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 14:02	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-103-(13-18)20231003-01

Lab Sample ID: 480-213426-7

Date Collected: 10/03/23 15:55

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 14:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 14:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 14:02	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 14:02	1
Chloroform	1.0		1.0	0.34	ug/L			10/07/23 14:02	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 14:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 14:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 14:02	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 14:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 14:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 14:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 14:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 14:02	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 14:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 14:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 14:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 14:02	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 14:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/07/23 14:02	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 14:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 14:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 14:02	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 14:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 14:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 14:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/07/23 14:02	1
4-Bromofluorobenzene (Surr)	108		73 - 120		10/07/23 14:02	1
Dibromofluoromethane (Surr)	106		75 - 123		10/07/23 14:02	1
Toluene-d8 (Surr)	108		80 - 120		10/07/23 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.1	J	7.5	1.9	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluoropentanoic acid (PFPeA)	ND		3.8	0.94	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorohexanoic acid (PFHxA)	1.5	J	1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluoroheptanoic acid (PFHpA)	2.6		1.9	0.49	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorooctanoic acid (PFOA)	34		1.9	0.60	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9	0.28	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-103-(13-18)20231003-01

Lab Sample ID: 480-213426-7

Date Collected: 10/03/23 15:55

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.79	J	1.9	0.53	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.84	ng/L		10/19/23 10:34	10/20/23 14:19	1
4:2 FTS	ND		7.5	1.6	ng/L		10/19/23 10:34	10/20/23 14:19	1
6:2 FTS	ND		7.5	2.3	ng/L		10/19/23 10:34	10/20/23 14:19	1
8:2 FTS	ND		7.5	2.4	ng/L		10/19/23 10:34	10/20/23 14:19	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
NMeFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
NEtFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
NMeFOSAA	ND		3.8	1.1	ng/L		10/19/23 10:34	10/20/23 14:19	1
NEtFOSAA	ND		1.9	0.66	ng/L		10/19/23 10:34	10/20/23 14:19	1
NMeFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 14:19	1
NEtFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 14:19	1
HFPO-DA (GenX)	ND		7.5	1.9	ng/L		10/19/23 10:34	10/20/23 14:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.5	1.4	ng/L		10/19/23 10:34	10/20/23 14:19	1
PFMBA	ND		3.8	0.94	ng/L		10/19/23 10:34	10/20/23 14:19	1
NFDHA	ND		3.8	0.94	ng/L		10/19/23 10:34	10/20/23 14:19	1
PFMPA	ND		3.8	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
9Cl-PF3ONS	ND		7.5	0.94	ng/L		10/19/23 10:34	10/20/23 14:19	1
11Cl-PF3OUdS	ND		7.5	1.9	ng/L		10/19/23 10:34	10/20/23 14:19	1
PFEESA	ND		3.8	0.47	ng/L		10/19/23 10:34	10/20/23 14:19	1
3:3 FTCA	ND		9.4	1.4	ng/L		10/19/23 10:34	10/20/23 14:19	1
5:3 FTCA	ND		47	9.4	ng/L		10/19/23 10:34	10/20/23 14:19	1
7:3 FTCA	ND		47	9.4	ng/L		10/19/23 10:34	10/20/23 14:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95		10 - 130				10/19/23 10:34	10/20/23 14:19	1
13C5 PFPeA	103		35 - 150				10/19/23 10:34	10/20/23 14:19	1
13C5 PFHxA	100		55 - 150				10/19/23 10:34	10/20/23 14:19	1
13C4 PFHpA	96		55 - 150				10/19/23 10:34	10/20/23 14:19	1
13C8 PFOA	92		60 - 140				10/19/23 10:34	10/20/23 14:19	1
13C9 PFNA	94		55 - 140				10/19/23 10:34	10/20/23 14:19	1
13C6 PFDA	94		50 - 140				10/19/23 10:34	10/20/23 14:19	1
13C7 PFUnA	93		30 - 140				10/19/23 10:34	10/20/23 14:19	1
13C2 PFDoA	83		10 - 150				10/19/23 10:34	10/20/23 14:19	1
13C2 PFTeDA	81		10 - 130				10/19/23 10:34	10/20/23 14:19	1
13C3 PFBS	100		55 - 150				10/19/23 10:34	10/20/23 14:19	1
13C3 PFHxS	99		55 - 150				10/19/23 10:34	10/20/23 14:19	1
13C8 PFOS	87		45 - 140				10/19/23 10:34	10/20/23 14:19	1
13C8 FOSA	92		30 - 130				10/19/23 10:34	10/20/23 14:19	1
d3-NMeFOSAA	98		45 - 200				10/19/23 10:34	10/20/23 14:19	1
d5-NEtFOSAA	105		10 - 200				10/19/23 10:34	10/20/23 14:19	1
M2-4:2 FTS	115		60 - 200				10/19/23 10:34	10/20/23 14:19	1

Eurofins Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-103-(13-18)20231003-01

Lab Sample ID: 480-213426-7

Date Collected: 10/03/23 15:55

Matrix: Water

Date Received: 10/06/23 11:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	100		60 - 200	10/19/23 10:34	10/20/23 14:19	1
M2-8:2 FTS	101		50 - 200	10/19/23 10:34	10/20/23 14:19	1
13C3 HFPO-DA	95		25 - 160	10/19/23 10:34	10/20/23 14:19	1
d7-N-MeFOSE-M	106		10 - 150	10/19/23 10:34	10/20/23 14:19	1
d9-N-EtFOSE-M	104		10 - 150	10/19/23 10:34	10/20/23 14:19	1
d5-NEtPFOSA	84		10 - 130	10/19/23 10:34	10/20/23 14:19	1
d3-NMePFOSA	84		15 - 130	10/19/23 10:34	10/20/23 14:19	1

Client Sample ID: ERM-8-20231004-01

Lab Sample ID: 480-213426-8

Date Collected: 10/04/23 08:50

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 14:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 14:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 14:24	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 14:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 14:24	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 14:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 14:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 14:24	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 14:24	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 14:24	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 14:24	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 14:24	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 14:24	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 14:24	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 14:24	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 14:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 14:24	1
Acetone	ND		10	3.0	ug/L			10/07/23 14:24	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 14:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 14:24	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 14:24	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 14:24	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 14:24	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 14:24	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 14:24	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 14:24	1
Chloroform	ND		1.0	0.34	ug/L			10/07/23 14:24	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 14:24	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 14:24	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 14:24	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 14:24	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 14:24	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 14:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 14:24	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 14:24	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 14:24	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-8-20231004-01

Lab Sample ID: 480-213426-8

Date Collected: 10/04/23 08:50

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 14:24	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 14:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 14:24	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 14:24	1
Tetrachloroethene	0.72	J	1.0	0.36	ug/L			10/07/23 14:24	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 14:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 14:24	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 14:24	1
Trichloroethene	0.89	J	1.0	0.46	ug/L			10/07/23 14:24	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 14:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 14:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/07/23 14:24	1
4-Bromofluorobenzene (Surr)	108		73 - 120		10/07/23 14:24	1
Dibromofluoromethane (Surr)	104		75 - 123		10/07/23 14:24	1
Toluene-d8 (Surr)	109		80 - 120		10/07/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.4	1.9	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluoropentanoic acid (PFPeA)	ND		3.7	0.93	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorohexanoic acid (PFHxA)	0.77	J	1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluoroheptanoic acid (PFHpA)	1.2	J	1.9	0.48	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorooctanoic acid (PFOA)	7.4		1.9	0.59	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorobutanesulfonic acid (PFBS)	0.75	J	1.9	0.28	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.53	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.37	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorooctanesulfonic acid (PFOS)	0.57	J	1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.37	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.84	ng/L		10/19/23 10:34	10/20/23 14:38	1
4:2 FTS	ND		7.4	1.6	ng/L		10/19/23 10:34	10/20/23 14:38	1
6:2 FTS	ND		7.4	2.3	ng/L		10/19/23 10:34	10/20/23 14:38	1
8:2 FTS	ND		7.4	2.4	ng/L		10/19/23 10:34	10/20/23 14:38	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
NMeFOSA	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
NEtFOSA	ND		1.9	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-8-20231004-01

Lab Sample ID: 480-213426-8

Date Collected: 10/04/23 08:50

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		3.7	1.1	ng/L		10/19/23 10:34	10/20/23 14:38	1
NEtFOSAA	ND		1.9	0.65	ng/L		10/19/23 10:34	10/20/23 14:38	1
NMeFOSE	ND		19	4.6	ng/L		10/19/23 10:34	10/20/23 14:38	1
NEtFOSE	ND		19	4.6	ng/L		10/19/23 10:34	10/20/23 14:38	1
HFPO-DA (GenX)	ND		7.4	1.9	ng/L		10/19/23 10:34	10/20/23 14:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.4	1.4	ng/L		10/19/23 10:34	10/20/23 14:38	1
PFMBA	ND		3.7	0.93	ng/L		10/19/23 10:34	10/20/23 14:38	1
NFDHA	ND		3.7	0.93	ng/L		10/19/23 10:34	10/20/23 14:38	1
PFMPA	ND		3.7	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
9CI-PF3ONS	ND		7.4	0.93	ng/L		10/19/23 10:34	10/20/23 14:38	1
11CI-PF3OUdS	ND		7.4	1.9	ng/L		10/19/23 10:34	10/20/23 14:38	1
PFEESA	ND		3.7	0.46	ng/L		10/19/23 10:34	10/20/23 14:38	1
3:3 FTCA	ND		9.3	1.4	ng/L		10/19/23 10:34	10/20/23 14:38	1
5:3 FTCA	ND		46	9.3	ng/L		10/19/23 10:34	10/20/23 14:38	1
7:3 FTCA	ND		46	9.3	ng/L		10/19/23 10:34	10/20/23 14:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	92		10 - 130				10/19/23 10:34	10/20/23 14:38	1
13C5 PFPeA	98		35 - 150				10/19/23 10:34	10/20/23 14:38	1
13C5 PFHxA	94		55 - 150				10/19/23 10:34	10/20/23 14:38	1
13C4 PFHpA	92		55 - 150				10/19/23 10:34	10/20/23 14:38	1
13C8 PFOA	87		60 - 140				10/19/23 10:34	10/20/23 14:38	1
13C9 PFNA	85		55 - 140				10/19/23 10:34	10/20/23 14:38	1
13C6 PFDA	89		50 - 140				10/19/23 10:34	10/20/23 14:38	1
13C7 PFUnA	90		30 - 140				10/19/23 10:34	10/20/23 14:38	1
13C2 PFDoA	82		10 - 150				10/19/23 10:34	10/20/23 14:38	1
13C2 PFTeDA	75		10 - 130				10/19/23 10:34	10/20/23 14:38	1
13C3 PFBS	91		55 - 150				10/19/23 10:34	10/20/23 14:38	1
13C3 PFHxS	93		55 - 150				10/19/23 10:34	10/20/23 14:38	1
13C8 PFOS	82		45 - 140				10/19/23 10:34	10/20/23 14:38	1
13C8 FOSA	91		30 - 130				10/19/23 10:34	10/20/23 14:38	1
d3-NMeFOSAA	96		45 - 200				10/19/23 10:34	10/20/23 14:38	1
d5-NEtFOSAA	94		10 - 200				10/19/23 10:34	10/20/23 14:38	1
M2-4:2 FTS	100		60 - 200				10/19/23 10:34	10/20/23 14:38	1
M2-6:2 FTS	87		60 - 200				10/19/23 10:34	10/20/23 14:38	1
M2-8:2 FTS	88		50 - 200				10/19/23 10:34	10/20/23 14:38	1
13C3 HFPO-DA	93		25 - 160				10/19/23 10:34	10/20/23 14:38	1
d7-N-MeFOSE-M	100		10 - 150				10/19/23 10:34	10/20/23 14:38	1
d9-N-EtFOSE-M	97		10 - 150				10/19/23 10:34	10/20/23 14:38	1
d5-NEtPFOSA	82		10 - 130				10/19/23 10:34	10/20/23 14:38	1
d3-NMePFOSA	80		15 - 130				10/19/23 10:34	10/20/23 14:38	1

Client Sample ID: ERM-16-20231004-01

Lab Sample ID: 480-213426-9

Date Collected: 10/04/23 10:15

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 14:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 14:46	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-16-20231004-01

Lab Sample ID: 480-213426-9

Date Collected: 10/04/23 10:15

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 14:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 14:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 14:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 14:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 14:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 14:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 14:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 14:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 14:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 14:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 14:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 14:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 14:46	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 14:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 14:46	1
Acetone	ND		10	3.0	ug/L			10/07/23 14:46	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 14:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 14:46	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 14:46	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 14:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 14:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 14:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 14:46	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 14:46	1
Chloroform	0.46	J	1.0	0.34	ug/L			10/07/23 14:46	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 14:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 14:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 14:46	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 14:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 14:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 14:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 14:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 14:46	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 14:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 14:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 14:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 14:46	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 14:46	1
Tetrachloroethene	17		1.0	0.36	ug/L			10/07/23 14:46	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 14:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 14:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 14:46	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 14:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 14:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 14:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/07/23 14:46	1
4-Bromofluorobenzene (Surr)	108		73 - 120		10/07/23 14:46	1

Eurofins Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-16-20231004-01

Lab Sample ID: 480-213426-9

Date Collected: 10/04/23 10:15

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		75 - 123		10/07/23 14:46	1
Toluene-d8 (Surr)	108		80 - 120		10/07/23 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.5	1.9	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluoropentanoic acid (PFPeA)	1.8	J	3.8	0.94	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorohexanoic acid (PFHxA)	1.9		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.9	0.49	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorooctanoic acid (PFOA)	11		1.9	0.60	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorobutanesulfonic acid (PFBS)	1.7	J	1.9	0.28	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.54	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorooctanesulfonic acid (PFOS)	1.6	J	1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.85	ng/L		10/19/23 10:34	10/20/23 14:58	1
4:2 FTS	ND		7.5	1.6	ng/L		10/19/23 10:34	10/20/23 14:58	1
6:2 FTS	ND		7.5	2.4	ng/L		10/19/23 10:34	10/20/23 14:58	1
8:2 FTS	ND		7.5	2.5	ng/L		10/19/23 10:34	10/20/23 14:58	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
NMeFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
NEtFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
NMeFOSAA	ND		3.8	1.1	ng/L		10/19/23 10:34	10/20/23 14:58	1
NEtFOSAA	ND		1.9	0.66	ng/L		10/19/23 10:34	10/20/23 14:58	1
NMeFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 14:58	1
NEtFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 14:58	1
HFPO-DA (GenX)	ND		7.5	1.9	ng/L		10/19/23 10:34	10/20/23 14:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.5	1.4	ng/L		10/19/23 10:34	10/20/23 14:58	1
PFMBA	ND		3.8	0.94	ng/L		10/19/23 10:34	10/20/23 14:58	1
NFDHA	ND		3.8	0.94	ng/L		10/19/23 10:34	10/20/23 14:58	1
PFMPA	ND		3.8	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
9Cl-PF3ONS	ND		7.5	0.94	ng/L		10/19/23 10:34	10/20/23 14:58	1
11Cl-PF3OUdS	ND		7.5	1.9	ng/L		10/19/23 10:34	10/20/23 14:58	1
PFEESA	ND		3.8	0.47	ng/L		10/19/23 10:34	10/20/23 14:58	1
3:3 FTCA	ND		9.4	1.4	ng/L		10/19/23 10:34	10/20/23 14:58	1
5:3 FTCA	ND		47	9.4	ng/L		10/19/23 10:34	10/20/23 14:58	1
7:3 FTCA	ND		47	9.4	ng/L		10/19/23 10:34	10/20/23 14:58	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-16-20231004-01

Lab Sample ID: 480-213426-9

Date Collected: 10/04/23 10:15

Matrix: Water

Date Received: 10/06/23 11:00

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	95		10 - 130	10/19/23 10:34	10/20/23 14:58	1
13C5 PFPeA	95		35 - 150	10/19/23 10:34	10/20/23 14:58	1
13C5 PFHxA	94		55 - 150	10/19/23 10:34	10/20/23 14:58	1
13C4 PFHpA	89		55 - 150	10/19/23 10:34	10/20/23 14:58	1
13C8 PFOA	90		60 - 140	10/19/23 10:34	10/20/23 14:58	1
13C9 PFNA	84		55 - 140	10/19/23 10:34	10/20/23 14:58	1
13C6 PFDA	98		50 - 140	10/19/23 10:34	10/20/23 14:58	1
13C7 PFUnA	94		30 - 140	10/19/23 10:34	10/20/23 14:58	1
13C2 PFDoA	91		10 - 150	10/19/23 10:34	10/20/23 14:58	1
13C2 PFTeDA	85		10 - 130	10/19/23 10:34	10/20/23 14:58	1
13C3 PFBS	96		55 - 150	10/19/23 10:34	10/20/23 14:58	1
13C3 PFHxS	93		55 - 150	10/19/23 10:34	10/20/23 14:58	1
13C8 PFOS	80		45 - 140	10/19/23 10:34	10/20/23 14:58	1
13C8 FOSA	92		30 - 130	10/19/23 10:34	10/20/23 14:58	1
d3-NMeFOSAA	97		45 - 200	10/19/23 10:34	10/20/23 14:58	1
d5-NEtFOSAA	102		10 - 200	10/19/23 10:34	10/20/23 14:58	1
M2-4:2 FTS	108		60 - 200	10/19/23 10:34	10/20/23 14:58	1
M2-6:2 FTS	94		60 - 200	10/19/23 10:34	10/20/23 14:58	1
M2-8:2 FTS	97		50 - 200	10/19/23 10:34	10/20/23 14:58	1
13C3 HFPO-DA	95		25 - 160	10/19/23 10:34	10/20/23 14:58	1
d7-N-MeFOSE-M	100		10 - 150	10/19/23 10:34	10/20/23 14:58	1
d9-N-EtFOSE-M	98		10 - 150	10/19/23 10:34	10/20/23 14:58	1
d5-NEtPFOSA	77		10 - 130	10/19/23 10:34	10/20/23 14:58	1
d3-NMePFOSA	76		15 - 130	10/19/23 10:34	10/20/23 14:58	1

Client Sample ID: DUP-001-20231004-01

Lab Sample ID: 480-213426-10

Date Collected: 10/04/23 12:00

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 15:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 15:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 15:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 15:08	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 15:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 15:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 15:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 15:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 15:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 15:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 15:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 15:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 15:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 15:08	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 15:08	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 15:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 15:08	1
Acetone	ND		10	3.0	ug/L			10/07/23 15:08	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 15:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 15:08	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: DUP-001-20231004-01

Lab Sample ID: 480-213426-10

Date Collected: 10/04/23 12:00

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.26	ug/L			10/07/23 15:08	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 15:08	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 15:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 15:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 15:08	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 15:08	1
Chloroform	0.47	J	1.0	0.34	ug/L			10/07/23 15:08	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 15:08	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 15:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 15:08	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 15:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 15:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 15:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 15:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 15:08	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 15:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 15:08	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 15:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 15:08	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 15:08	1
Tetrachloroethene	18		1.0	0.36	ug/L			10/07/23 15:08	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 15:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 15:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 15:08	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 15:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 15:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 15:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/07/23 15:08	1
4-Bromofluorobenzene (Surr)	112		73 - 120		10/07/23 15:08	1
Dibromofluoromethane (Surr)	104		75 - 123		10/07/23 15:08	1
Toluene-d8 (Surr)	109		80 - 120		10/07/23 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.6	1.9	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluoropentanoic acid (PFPeA)	1.8	J	3.8	0.94	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorohexanoic acid (PFHxA)	2.0		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.9	0.49	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorooctanoic acid (PFOA)	10		1.9	0.60	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorobutanesulfonic acid (PFBS)	1.7	J	1.9	0.28	ng/L		10/19/23 10:34	10/20/23 15:17	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: DUP-001-20231004-01

Lab Sample ID: 480-213426-10

Date Collected: 10/04/23 12:00

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.54	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorooctanesulfonic acid (PFOS)	2.0	I	1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.85	ng/L		10/19/23 10:34	10/20/23 15:17	1
4:2 FTS	ND		7.6	1.6	ng/L		10/19/23 10:34	10/20/23 15:17	1
6:2 FTS	ND		7.6	2.4	ng/L		10/19/23 10:34	10/20/23 15:17	1
8:2 FTS	ND		7.6	2.5	ng/L		10/19/23 10:34	10/20/23 15:17	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
NMeFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
NEtFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
NMeFOSAA	ND		3.8	1.1	ng/L		10/19/23 10:34	10/20/23 15:17	1
NEtFOSAA	ND		1.9	0.66	ng/L		10/19/23 10:34	10/20/23 15:17	1
NMeFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 15:17	1
NEtFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 15:17	1
HFPO-DA (GenX)	ND		7.6	1.9	ng/L		10/19/23 10:34	10/20/23 15:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.6	1.4	ng/L		10/19/23 10:34	10/20/23 15:17	1
PFMBA	ND		3.8	0.94	ng/L		10/19/23 10:34	10/20/23 15:17	1
NFDHA	ND		3.8	0.94	ng/L		10/19/23 10:34	10/20/23 15:17	1
PFMPA	ND		3.8	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
9CI-PF3ONS	ND		7.6	0.94	ng/L		10/19/23 10:34	10/20/23 15:17	1
11CI-PF3OUdS	ND		7.6	1.9	ng/L		10/19/23 10:34	10/20/23 15:17	1
PFEESA	ND		3.8	0.47	ng/L		10/19/23 10:34	10/20/23 15:17	1
3:3 FTCA	ND		9.4	1.4	ng/L		10/19/23 10:34	10/20/23 15:17	1
5:3 FTCA	ND		47	9.4	ng/L		10/19/23 10:34	10/20/23 15:17	1
7:3 FTCA	ND		47	9.4	ng/L		10/19/23 10:34	10/20/23 15:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94		10 - 130	10/19/23 10:34	10/20/23 15:17	1
13C5 PFPeA	93		35 - 150	10/19/23 10:34	10/20/23 15:17	1
13C5 PFHxA	91		55 - 150	10/19/23 10:34	10/20/23 15:17	1
13C4 PFHpA	90		55 - 150	10/19/23 10:34	10/20/23 15:17	1
13C8 PFOA	91		60 - 140	10/19/23 10:34	10/20/23 15:17	1
13C9 PFNA	88		55 - 140	10/19/23 10:34	10/20/23 15:17	1
13C6 PFDA	87		50 - 140	10/19/23 10:34	10/20/23 15:17	1
13C7 PFUnA	90		30 - 140	10/19/23 10:34	10/20/23 15:17	1
13C2 PFDoA	83		10 - 150	10/19/23 10:34	10/20/23 15:17	1
13C2 PFTeDA	80		10 - 130	10/19/23 10:34	10/20/23 15:17	1
13C3 PFBS	99		55 - 150	10/19/23 10:34	10/20/23 15:17	1
13C3 PFHxS	94		55 - 150	10/19/23 10:34	10/20/23 15:17	1
13C8 PFOS	81		45 - 140	10/19/23 10:34	10/20/23 15:17	1
13C8 FOSA	93		30 - 130	10/19/23 10:34	10/20/23 15:17	1
d3-NMeFOSAA	93		45 - 200	10/19/23 10:34	10/20/23 15:17	1
d5-NEtFOSAA	100		10 - 200	10/19/23 10:34	10/20/23 15:17	1

Eurofins Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: DUP-001-20231004-01

Lab Sample ID: 480-213426-10

Date Collected: 10/04/23 12:00

Matrix: Water

Date Received: 10/06/23 11:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	114		60 - 200	10/19/23 10:34	10/20/23 15:17	1
M2-6:2 FTS	96		60 - 200	10/19/23 10:34	10/20/23 15:17	1
M2-8:2 FTS	94		50 - 200	10/19/23 10:34	10/20/23 15:17	1
13C3 HFPO-DA	89		25 - 160	10/19/23 10:34	10/20/23 15:17	1
d7-N-MeFOSE-M	106		10 - 150	10/19/23 10:34	10/20/23 15:17	1
d9-N-EtFOSE-M	102		10 - 150	10/19/23 10:34	10/20/23 15:17	1
d5-NEtPFOSA	81		10 - 130	10/19/23 10:34	10/20/23 15:17	1
d3-NMePFOSA	77		15 - 130	10/19/23 10:34	10/20/23 15:17	1

Client Sample ID: ERM-11S-20231004-01

Lab Sample ID: 480-213426-11

Date Collected: 10/04/23 12:15

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 15:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 15:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 15:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 15:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 15:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 15:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 15:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 15:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 15:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 15:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 15:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 15:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 15:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 15:30	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 15:30	1
Acetone	ND		10	3.0	ug/L			10/07/23 15:30	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 15:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 15:30	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 15:30	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 15:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 15:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 15:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 15:30	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 15:30	1
Chloroform	ND		1.0	0.34	ug/L			10/07/23 15:30	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 15:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 15:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 15:30	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 15:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 15:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 15:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 15:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 15:30	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-11S-20231004-01

Lab Sample ID: 480-213426-11

Date Collected: 10/04/23 12:15

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 15:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 15:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 15:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 15:30	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 15:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/07/23 15:30	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 15:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 15:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 15:30	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 15:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 15:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 15:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/07/23 15:30	1
4-Bromofluorobenzene (Surr)	107		73 - 120		10/07/23 15:30	1
Dibromofluoromethane (Surr)	104		75 - 123		10/07/23 15:30	1
Toluene-d8 (Surr)	106		80 - 120		10/07/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.6	1.9	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluoropentanoic acid (PFPeA)	ND		3.8	0.95	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorohexanoic acid (PFHxA)	0.80	J I	1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.50	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorooctanoic acid (PFOA)	1.2	J	1.9	0.61	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.29	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.54	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.86	ng/L		10/19/23 10:34	10/20/23 15:37	1
4:2 FTS	ND		7.6	1.6	ng/L		10/19/23 10:34	10/20/23 15:37	1
6:2 FTS	ND		7.6	2.4	ng/L		10/19/23 10:34	10/20/23 15:37	1
8:2 FTS	ND		7.6	2.5	ng/L		10/19/23 10:34	10/20/23 15:37	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
NMeFOSA	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
NEtFOSA	ND		1.9	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
NMeFOSAA	ND		3.8	1.1	ng/L		10/19/23 10:34	10/20/23 15:37	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-11S-20231004-01

Lab Sample ID: 480-213426-11

Date Collected: 10/04/23 12:15

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	ND		1.9	0.67	ng/L		10/19/23 10:34	10/20/23 15:37	1
NMeFOSE	ND		19	4.8	ng/L		10/19/23 10:34	10/20/23 15:37	1
NEtFOSE	ND		19	4.8	ng/L		10/19/23 10:34	10/20/23 15:37	1
HFPO-DA (GenX)	ND		7.6	1.9	ng/L		10/19/23 10:34	10/20/23 15:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.6	1.4	ng/L		10/19/23 10:34	10/20/23 15:37	1
PFMBA	ND		3.8	0.95	ng/L		10/19/23 10:34	10/20/23 15:37	1
NFDHA	ND		3.8	0.95	ng/L		10/19/23 10:34	10/20/23 15:37	1
PFMPA	ND		3.8	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
9CI-PF3ONS	ND		7.6	0.95	ng/L		10/19/23 10:34	10/20/23 15:37	1
11CI-PF3OUdS	ND		7.6	1.9	ng/L		10/19/23 10:34	10/20/23 15:37	1
PFEESA	ND		3.8	0.48	ng/L		10/19/23 10:34	10/20/23 15:37	1
3:3 FTCA	ND		9.5	1.4	ng/L		10/19/23 10:34	10/20/23 15:37	1
5:3 FTCA	ND		48	9.5	ng/L		10/19/23 10:34	10/20/23 15:37	1
7:3 FTCA	ND		48	9.5	ng/L		10/19/23 10:34	10/20/23 15:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	94		10 - 130				10/19/23 10:34	10/20/23 15:37	1
13C5 PFPeA	90		35 - 150				10/19/23 10:34	10/20/23 15:37	1
13C5 PFHxA	87		55 - 150				10/19/23 10:34	10/20/23 15:37	1
13C4 PFHpA	85		55 - 150				10/19/23 10:34	10/20/23 15:37	1
13C8 PFOA	92		60 - 140				10/19/23 10:34	10/20/23 15:37	1
13C9 PFNA	90		55 - 140				10/19/23 10:34	10/20/23 15:37	1
13C6 PFDA	91		50 - 140				10/19/23 10:34	10/20/23 15:37	1
13C7 PFUnA	82		30 - 140				10/19/23 10:34	10/20/23 15:37	1
13C2 PFDoA	80		10 - 150				10/19/23 10:34	10/20/23 15:37	1
13C2 PFTeDA	73		10 - 130				10/19/23 10:34	10/20/23 15:37	1
13C3 PFBS	93		55 - 150				10/19/23 10:34	10/20/23 15:37	1
13C3 PFHxS	90		55 - 150				10/19/23 10:34	10/20/23 15:37	1
13C8 PFOS	85		45 - 140				10/19/23 10:34	10/20/23 15:37	1
13C8 FOSA	86		30 - 130				10/19/23 10:34	10/20/23 15:37	1
d3-NMeFOSAA	83		45 - 200				10/19/23 10:34	10/20/23 15:37	1
d5-NEtFOSAA	85		10 - 200				10/19/23 10:34	10/20/23 15:37	1
M2-4:2 FTS	90		60 - 200				10/19/23 10:34	10/20/23 15:37	1
M2-6:2 FTS	77		60 - 200				10/19/23 10:34	10/20/23 15:37	1
M2-8:2 FTS	74		50 - 200				10/19/23 10:34	10/20/23 15:37	1
13C3 HFPO-DA	86		25 - 160				10/19/23 10:34	10/20/23 15:37	1
d7-N-MeFOSE-M	88		10 - 150				10/19/23 10:34	10/20/23 15:37	1
d9-N-EtFOSE-M	85		10 - 150				10/19/23 10:34	10/20/23 15:37	1
d5-NEtPFOSA	69		10 - 130				10/19/23 10:34	10/20/23 15:37	1
d3-NMePFOSA	72		15 - 130				10/19/23 10:34	10/20/23 15:37	1

Client Sample ID: ERM-12-20231004-01

Lab Sample ID: 480-213426-12

Date Collected: 10/04/23 14:10

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 15:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 15:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 15:52	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-12-20231004-01

Lab Sample ID: 480-213426-12

Date Collected: 10/04/23 14:10

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	2.5		1.0	0.23	ug/L			10/07/23 15:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 15:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 15:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 15:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 15:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 15:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 15:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 15:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 15:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 15:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 15:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 15:52	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 15:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 15:52	1
Acetone	ND		10	3.0	ug/L			10/07/23 15:52	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 15:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 15:52	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 15:52	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 15:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 15:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 15:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 15:52	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 15:52	1
Chloroform	ND		1.0	0.34	ug/L			10/07/23 15:52	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 15:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 15:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 15:52	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 15:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 15:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 15:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 15:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 15:52	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 15:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 15:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 15:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 15:52	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 15:52	1
Tetrachloroethene	110 E		1.0	0.36	ug/L			10/07/23 15:52	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 15:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 15:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 15:52	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 15:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 15:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 15:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/07/23 15:52	1
4-Bromofluorobenzene (Surr)	108		73 - 120		10/07/23 15:52	1
Dibromofluoromethane (Surr)	107		75 - 123		10/07/23 15:52	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-12-20231004-01

Lab Sample ID: 480-213426-12

Date Collected: 10/04/23 14:10

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	112		80 - 120		10/07/23 15:52	1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			10/09/23 18:21	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			10/09/23 18:21	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			10/09/23 18:21	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			10/09/23 18:21	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			10/09/23 18:21	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			10/09/23 18:21	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			10/09/23 18:21	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			10/09/23 18:21	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			10/09/23 18:21	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			10/09/23 18:21	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			10/09/23 18:21	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			10/09/23 18:21	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			10/09/23 18:21	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			10/09/23 18:21	4
2-Butanone (MEK)	ND		40	5.3	ug/L			10/09/23 18:21	4
2-Hexanone	ND		20	5.0	ug/L			10/09/23 18:21	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			10/09/23 18:21	4
Acetone	ND		40	12	ug/L			10/09/23 18:21	4
Benzene	ND		4.0	1.6	ug/L			10/09/23 18:21	4
Bromodichloromethane	ND		4.0	1.6	ug/L			10/09/23 18:21	4
Bromoform	ND	*+	4.0	1.0	ug/L			10/09/23 18:21	4
Bromomethane	ND		4.0	2.8	ug/L			10/09/23 18:21	4
Carbon disulfide	ND		4.0	0.76	ug/L			10/09/23 18:21	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			10/09/23 18:21	4
Chlorobenzene	ND		4.0	3.0	ug/L			10/09/23 18:21	4
Chloroethane	ND		4.0	1.3	ug/L			10/09/23 18:21	4
Chloroform	ND		4.0	1.4	ug/L			10/09/23 18:21	4
Chloromethane	ND		4.0	1.4	ug/L			10/09/23 18:21	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			10/09/23 18:21	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			10/09/23 18:21	4
Cyclohexane	ND		4.0	0.72	ug/L			10/09/23 18:21	4
Dibromochloromethane	ND		4.0	1.3	ug/L			10/09/23 18:21	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			10/09/23 18:21	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/09/23 18:21	4
Isopropylbenzene	ND		4.0	3.2	ug/L			10/09/23 18:21	4
Methyl acetate	ND		10	5.2	ug/L			10/09/23 18:21	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			10/09/23 18:21	4
Methylcyclohexane	ND		4.0	0.64	ug/L			10/09/23 18:21	4
Methylene Chloride	ND		4.0	1.8	ug/L			10/09/23 18:21	4
Styrene	ND		4.0	2.9	ug/L			10/09/23 18:21	4
Tetrachloroethene	100		4.0	1.4	ug/L			10/09/23 18:21	4
Toluene	ND		4.0	2.0	ug/L			10/09/23 18:21	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			10/09/23 18:21	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			10/09/23 18:21	4
Trichloroethene	ND		4.0	1.8	ug/L			10/09/23 18:21	4

Eurofins Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-12-20231004-01

Lab Sample ID: 480-213426-12

Date Collected: 10/04/23 14:10

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		4.0	3.5	ug/L			10/09/23 18:21	4
Vinyl chloride	ND		4.0	3.6	ug/L			10/09/23 18:21	4
Xylenes, Total	ND		8.0	2.6	ug/L			10/09/23 18:21	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					10/09/23 18:21	4
4-Bromofluorobenzene (Surr)	114		73 - 120					10/09/23 18:21	4
Dibromofluoromethane (Surr)	103		75 - 123					10/09/23 18:21	4
Toluene-d8 (Surr)	106		80 - 120					10/09/23 18:21	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.3	1.8	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluoropentanoic acid (PFPeA)	ND		3.6	0.91	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorohexanoic acid (PFHxA)	0.58	J	1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluoroheptanoic acid (PFHpA)	1.0	J	1.8	0.47	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorooctanoic acid (PFOA)	11		1.8	0.58	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.8	0.27	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.52	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.36	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorooctanesulfonic acid (PFOS)	1.4	J	1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.36	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.82	ng/L		10/19/23 10:34	10/20/23 16:35	1
4:2 FTS	ND		7.3	1.5	ng/L		10/19/23 10:34	10/20/23 16:35	1
6:2 FTS	ND		7.3	2.3	ng/L		10/19/23 10:34	10/20/23 16:35	1
8:2 FTS	ND		7.3	2.4	ng/L		10/19/23 10:34	10/20/23 16:35	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
NMeFOSA	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
NEtFOSA	ND		1.8	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
NMeFOSAA	ND		3.6	1.1	ng/L		10/19/23 10:34	10/20/23 16:35	1
NEtFOSAA	ND		1.8	0.64	ng/L		10/19/23 10:34	10/20/23 16:35	1
NMeFOSE	ND		18	4.6	ng/L		10/19/23 10:34	10/20/23 16:35	1
NEtFOSE	ND		18	4.6	ng/L		10/19/23 10:34	10/20/23 16:35	1
HFPO-DA (GenX)	ND		7.3	1.8	ng/L		10/19/23 10:34	10/20/23 16:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4	ng/L		10/19/23 10:34	10/20/23 16:35	1
PFMBA	ND		3.6	0.91	ng/L		10/19/23 10:34	10/20/23 16:35	1
NFDHA	ND		3.6	0.91	ng/L		10/19/23 10:34	10/20/23 16:35	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-12-20231004-01

Lab Sample ID: 480-213426-12

Date Collected: 10/04/23 14:10

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFMPA	ND		3.6	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
9CI-PF3ONS	ND		7.3	0.91	ng/L		10/19/23 10:34	10/20/23 16:35	1
11CI-PF3OUdS	ND		7.3	1.8	ng/L		10/19/23 10:34	10/20/23 16:35	1
PFEESA	ND		3.6	0.46	ng/L		10/19/23 10:34	10/20/23 16:35	1
3:3 FTCA	ND		9.1	1.4	ng/L		10/19/23 10:34	10/20/23 16:35	1
5:3 FTCA	ND		46	9.1	ng/L		10/19/23 10:34	10/20/23 16:35	1
7:3 FTCA	ND		46	9.1	ng/L		10/19/23 10:34	10/20/23 16:35	1

Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	94		10 - 130				10/19/23 10:34	10/20/23 16:35	1
13C5 PFPeA	93		35 - 150				10/19/23 10:34	10/20/23 16:35	1
13C5 PFHxA	90		55 - 150				10/19/23 10:34	10/20/23 16:35	1
13C4 PFHpA	87		55 - 150				10/19/23 10:34	10/20/23 16:35	1
13C8 PFOA	93		60 - 140				10/19/23 10:34	10/20/23 16:35	1
13C9 PFNA	91		55 - 140				10/19/23 10:34	10/20/23 16:35	1
13C6 PFDA	86		50 - 140				10/19/23 10:34	10/20/23 16:35	1
13C7 PFUnA	85		30 - 140				10/19/23 10:34	10/20/23 16:35	1
13C2 PFDoA	77		10 - 150				10/19/23 10:34	10/20/23 16:35	1
13C2 PFTeDA	77		10 - 130				10/19/23 10:34	10/20/23 16:35	1
13C3 PFBS	93		55 - 150				10/19/23 10:34	10/20/23 16:35	1
13C3 PFHxS	87		55 - 150				10/19/23 10:34	10/20/23 16:35	1
13C8 PFOS	85		45 - 140				10/19/23 10:34	10/20/23 16:35	1
13C8 FOSA	90		30 - 130				10/19/23 10:34	10/20/23 16:35	1
d3-NMeFOSAA	96		45 - 200				10/19/23 10:34	10/20/23 16:35	1
d5-NEtFOSAA	94		10 - 200				10/19/23 10:34	10/20/23 16:35	1
M2-4:2 FTS	97		60 - 200				10/19/23 10:34	10/20/23 16:35	1
M2-6:2 FTS	82		60 - 200				10/19/23 10:34	10/20/23 16:35	1
M2-8:2 FTS	86		50 - 200				10/19/23 10:34	10/20/23 16:35	1
13C3 HFPO-DA	89		25 - 160				10/19/23 10:34	10/20/23 16:35	1
d7-N-MeFOSE-M	100		10 - 150				10/19/23 10:34	10/20/23 16:35	1
d9-N-EtFOSE-M	102		10 - 150				10/19/23 10:34	10/20/23 16:35	1
d5-NEtPFOSA	79		10 - 130				10/19/23 10:34	10/20/23 16:35	1
d3-NMePFOSA	85		15 - 130				10/19/23 10:34	10/20/23 16:35	1

Client Sample ID: ERM-13-20231004-01

Lab Sample ID: 480-213426-13

Date Collected: 10/04/23 15:50

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 16:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 16:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 16:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 16:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 16:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 16:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 16:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 16:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 16:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 16:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 16:14	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-13-20231004-01

Lab Sample ID: 480-213426-13

Date Collected: 10/04/23 15:50

Matrix: Water

Date Received: 10/06/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 16:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 16:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 16:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 16:14	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 16:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 16:14	1
Acetone	ND		10	3.0	ug/L			10/07/23 16:14	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 16:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 16:14	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 16:14	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 16:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 16:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 16:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 16:14	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 16:14	1
Chloroform	0.63	J	1.0	0.34	ug/L			10/07/23 16:14	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 16:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 16:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 16:14	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 16:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 16:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 16:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 16:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 16:14	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 16:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 16:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 16:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 16:14	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 16:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/07/23 16:14	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 16:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 16:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 16:14	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 16:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 16:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 16:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/07/23 16:14	1
4-Bromofluorobenzene (Surr)	110		73 - 120		10/07/23 16:14	1
Dibromofluoromethane (Surr)	104		75 - 123		10/07/23 16:14	1
Toluene-d8 (Surr)	106		80 - 120		10/07/23 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.6	1.9	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluoropentanoic acid (PFPeA)	0.98	J	3.8	0.95	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorohexanoic acid (PFHxA)	1.2	J	1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.9	0.49	ng/L		10/19/23 10:34	10/20/23 16:54	1

Eurofins Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-13-20231004-01

Lab Sample ID: 480-213426-13

Date Collected: 10/04/23 15:50

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	11		1.9	0.61	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9	0.28	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.54	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorooctanesulfonic acid (PFOS)	1.2 J		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.38	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.85	ng/L		10/19/23 10:34	10/20/23 16:54	1
4:2 FTS	ND		7.6	1.6	ng/L		10/19/23 10:34	10/20/23 16:54	1
6:2 FTS	ND		7.6	2.4	ng/L		10/19/23 10:34	10/20/23 16:54	1
8:2 FTS	ND		7.6	2.5	ng/L		10/19/23 10:34	10/20/23 16:54	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
NMeFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
NEtFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
NMeFOSAA	ND		3.8	1.1	ng/L		10/19/23 10:34	10/20/23 16:54	1
NEtFOSAA	ND		1.9	0.66	ng/L		10/19/23 10:34	10/20/23 16:54	1
NMeFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 16:54	1
NEtFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 16:54	1
HFPO-DA (GenX)	ND		7.6	1.9	ng/L		10/19/23 10:34	10/20/23 16:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.6	1.4	ng/L		10/19/23 10:34	10/20/23 16:54	1
PFMBA	ND		3.8	0.95	ng/L		10/19/23 10:34	10/20/23 16:54	1
NFDHA	ND		3.8	0.95	ng/L		10/19/23 10:34	10/20/23 16:54	1
PFMPA	ND		3.8	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
9CI-PF3ONS	ND		7.6	0.95	ng/L		10/19/23 10:34	10/20/23 16:54	1
11CI-PF3OUdS	ND		7.6	1.9	ng/L		10/19/23 10:34	10/20/23 16:54	1
PFEESA	ND		3.8	0.47	ng/L		10/19/23 10:34	10/20/23 16:54	1
3:3 FTCA	ND		9.5	1.4	ng/L		10/19/23 10:34	10/20/23 16:54	1
5:3 FTCA	ND		47	9.5	ng/L		10/19/23 10:34	10/20/23 16:54	1
7:3 FTCA	ND		47	9.5	ng/L		10/19/23 10:34	10/20/23 16:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	97		10 - 130				10/19/23 10:34	10/20/23 16:54	1
13C5 PFPeA	104		35 - 150				10/19/23 10:34	10/20/23 16:54	1
13C5 PFHxA	97		55 - 150				10/19/23 10:34	10/20/23 16:54	1
13C4 PFHpA	100		55 - 150				10/19/23 10:34	10/20/23 16:54	1
13C8 PFOA	94		60 - 140				10/19/23 10:34	10/20/23 16:54	1
13C9 PFNA	96		55 - 140				10/19/23 10:34	10/20/23 16:54	1
13C6 PFDA	91		50 - 140				10/19/23 10:34	10/20/23 16:54	1
13C7 PFUnA	100		30 - 140				10/19/23 10:34	10/20/23 16:54	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-13-20231004-01

Lab Sample ID: 480-213426-13

Date Collected: 10/04/23 15:50

Matrix: Water

Date Received: 10/06/23 11:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	90		10 - 150	10/19/23 10:34	10/20/23 16:54	1
13C2 PFTeDA	90		10 - 130	10/19/23 10:34	10/20/23 16:54	1
13C3 PFBS	102		55 - 150	10/19/23 10:34	10/20/23 16:54	1
13C3 PFHxS	89		55 - 150	10/19/23 10:34	10/20/23 16:54	1
13C8 PFOS	88		45 - 140	10/19/23 10:34	10/20/23 16:54	1
13C8 FOSA	98		30 - 130	10/19/23 10:34	10/20/23 16:54	1
d3-NMeFOSAA	109		45 - 200	10/19/23 10:34	10/20/23 16:54	1
d5-NEtFOSAA	104		10 - 200	10/19/23 10:34	10/20/23 16:54	1
M2-4:2 FTS	111		60 - 200	10/19/23 10:34	10/20/23 16:54	1
M2-6:2 FTS	90		60 - 200	10/19/23 10:34	10/20/23 16:54	1
M2-8:2 FTS	90		50 - 200	10/19/23 10:34	10/20/23 16:54	1
13C3 HFPO-DA	101		25 - 160	10/19/23 10:34	10/20/23 16:54	1
d7-N-MeFOSE-M	114		10 - 150	10/19/23 10:34	10/20/23 16:54	1
d9-N-EtFOSE-M	111		10 - 150	10/19/23 10:34	10/20/23 16:54	1
d5-NEtPFOSA	85		10 - 130	10/19/23 10:34	10/20/23 16:54	1
d3-NMePFOSA	84		15 - 130	10/19/23 10:34	10/20/23 16:54	1

Client Sample ID: WASTE SAMPLE-20231004-01

Lab Sample ID: 480-213426-14

Date Collected: 10/04/23 16:32

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.1	J	7.5	1.9	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluoropentanoic acid (PFPeA)	1.0	J	3.7	0.94	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorohexanoic acid (PFHxA)	1.5	J	1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluoroheptanoic acid (PFHpA)	1.6	J	1.9	0.49	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorooctanoic acid (PFOA)	20		1.9	0.60	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.9	0.28	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.53	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.37	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.37	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.84	ng/L		10/19/23 10:34	10/20/23 17:14	1
4:2 FTS	ND		7.5	1.6	ng/L		10/19/23 10:34	10/20/23 17:14	1
6:2 FTS	4.6	J	7.5	2.3	ng/L		10/19/23 10:34	10/20/23 17:14	1
8:2 FTS	ND		7.5	2.4	ng/L		10/19/23 10:34	10/20/23 17:14	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: WASTE SAMPLE-20231004-01

Lab Sample ID: 480-213426-14

Date Collected: 10/04/23 16:32

Matrix: Water

Date Received: 10/06/23 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
NEtFOSA	ND		1.9	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
NMeFOSAA	ND		3.7	1.1	ng/L		10/19/23 10:34	10/20/23 17:14	1
NEtFOSAA	ND		1.9	0.66	ng/L		10/19/23 10:34	10/20/23 17:14	1
NMeFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 17:14	1
NEtFOSE	ND		19	4.7	ng/L		10/19/23 10:34	10/20/23 17:14	1
HFPO-DA (GenX)	ND		7.5	1.9	ng/L		10/19/23 10:34	10/20/23 17:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.5	1.4	ng/L		10/19/23 10:34	10/20/23 17:14	1
PfMBA	ND		3.7	0.94	ng/L		10/19/23 10:34	10/20/23 17:14	1
NFDHA	ND		3.7	0.94	ng/L		10/19/23 10:34	10/20/23 17:14	1
PfMPA	ND		3.7	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
9CI-PF3ONS	ND		7.5	0.94	ng/L		10/19/23 10:34	10/20/23 17:14	1
11CI-PF3OUdS	ND		7.5	1.9	ng/L		10/19/23 10:34	10/20/23 17:14	1
PFEESA	ND		3.7	0.47	ng/L		10/19/23 10:34	10/20/23 17:14	1
3:3 FTCA	ND		9.4	1.4	ng/L		10/19/23 10:34	10/20/23 17:14	1
5:3 FTCA	ND		47	9.4	ng/L		10/19/23 10:34	10/20/23 17:14	1
7:3 FTCA	ND		47	9.4	ng/L		10/19/23 10:34	10/20/23 17:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93		10 - 130				10/19/23 10:34	10/20/23 17:14	1
13C5 PFPeA	95		35 - 150				10/19/23 10:34	10/20/23 17:14	1
13C5 PFHxA	95		55 - 150				10/19/23 10:34	10/20/23 17:14	1
13C4 PFHpA	93		55 - 150				10/19/23 10:34	10/20/23 17:14	1
13C8 PFOA	89		60 - 140				10/19/23 10:34	10/20/23 17:14	1
13C9 PFNA	91		55 - 140				10/19/23 10:34	10/20/23 17:14	1
13C6 PFDA	90		50 - 140				10/19/23 10:34	10/20/23 17:14	1
13C7 PFUnA	80		30 - 140				10/19/23 10:34	10/20/23 17:14	1
13C2 PFDoA	70		10 - 150				10/19/23 10:34	10/20/23 17:14	1
13C2 PFTeDA	59		10 - 130				10/19/23 10:34	10/20/23 17:14	1
13C3 PFBS	95		55 - 150				10/19/23 10:34	10/20/23 17:14	1
13C3 PFHxS	91		55 - 150				10/19/23 10:34	10/20/23 17:14	1
13C8 PFOS	88		45 - 140				10/19/23 10:34	10/20/23 17:14	1
13C8 FOSA	93		30 - 130				10/19/23 10:34	10/20/23 17:14	1
d3-NMeFOSAA	96		45 - 200				10/19/23 10:34	10/20/23 17:14	1
d5-NEtFOSAA	90		10 - 200				10/19/23 10:34	10/20/23 17:14	1
M2-4:2 FTS	104		60 - 200				10/19/23 10:34	10/20/23 17:14	1
M2-6:2 FTS	87		60 - 200				10/19/23 10:34	10/20/23 17:14	1
M2-8:2 FTS	91		50 - 200				10/19/23 10:34	10/20/23 17:14	1
13C3 HFPO-DA	92		25 - 160				10/19/23 10:34	10/20/23 17:14	1
d7-N-MeFOSE-M	89		10 - 150				10/19/23 10:34	10/20/23 17:14	1
d9-N-EtFOSE-M	80		10 - 150				10/19/23 10:34	10/20/23 17:14	1
d5-NEtPFOSA	69		10 - 130				10/19/23 10:34	10/20/23 17:14	1
d3-NMePFOSA	70		15 - 130				10/19/23 10:34	10/20/23 17:14	1

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Surrogate Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-213426-1	TB-20231003-01	104	109	103	106
480-213426-3	MW-102-20231003-01	104	110	103	106
480-213426-4	MW-104-(5-10)20231003-01	103	108	105	109
480-213426-5	MW-104-(10-15)20231003-01	105	112	104	107
480-213426-6	MW-103-(8-13)20231003-01	105	114	103	106
480-213426-7	MW-103-(13-18)20231003-01	106	108	106	108
480-213426-8	ERM-8-20231004-01	105	108	104	109
480-213426-9	ERM-16-20231004-01	104	108	105	108
480-213426-10	DUP-001-20231004-01	105	112	104	109
480-213426-11	ERM-11S-20231004-01	104	107	104	106
480-213426-12	ERM-12-20231004-01	106	108	107	112
480-213426-12 - DL	ERM-12-20231004-01	102	114	103	106
480-213426-13	ERM-13-20231004-01	104	110	104	106
LCS 480-686459/6	Lab Control Sample	100	108	101	107
LCS 480-686636/6	Lab Control Sample	98	115	100	107
MB 480-686459/8	Method Blank	104	110	103	107
MB 480-686636/8	Method Blank	102	112	102	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Isotope Dilution Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDA (50-150)	PFDoA (50-150)	PFHxA (50-150)	PFTDA (50-150)	PFUnA (50-150)	C3PFBS (50-150)	C4PFHA (50-150)	PFOA (50-150)
480-213426-5	MW-104-(10-15)20231003-01	96	87	99	83	85	90	94	101
480-213426-6	MW-103-(8-13)20231003-01	92	90	94	87	86	91	93	103
LCS 200-196354/2-A	Lab Control Sample	98	97	101	88	100	95	99	102
LCSD 200-196354/3-A	Lab Control Sample Dup	87	91	95	82	87	89	91	102
MB 200-196354/1-A	Method Blank	98	89	101	82	91	93	102	103

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOS (50-150)	PFNA (50-150)	PFHxS (50-150)
480-213426-5	MW-104-(10-15)20231003-01	94	95	94
480-213426-6	MW-103-(8-13)20231003-01	93	100	95
LCS 200-196354/2-A	Lab Control Sample	99	97	95
LCSD 200-196354/3-A	Lab Control Sample Dup	92	90	90
MB 200-196354/1-A	Method Blank	91	96	96

Surrogate Legend

PFDA = 13C2 PFDA
PFDoA = 13C2 PFDoA
PFHxA = 13C2 PFHxA
PFTDA = 13C2 PFTeDA
PFUnA = 13C2 PFUnA
C3PFBS = 13C3 PFBS
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFHxS = 18O2 PFHxS

Method: Draft 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 (10-130)	PFPeA (35-150)	13C5PHA (55-150)	C4PFHA (55-150)	C8PFOA (60-140)	C9PFNA (55-140)	C6PFDA (50-140)	13C7PUA (30-140)
480-213426-2	FB-20231003-01	94	98	96	93	89	88	87	88
480-213426-3	MW-102-20231003-01	96	99	98	101	100	88	92	95
480-213426-4	MW-104-(5-10)20231003-01	96	98	96	95	92	93	95	94
480-213426-5	MW-104-(10-15)20231003-01	91	98	95	94	94	90	90	87
480-213426-6	MW-103-(8-13)20231003-01	93	92	91	86	101	95	93	91
480-213426-7	MW-103-(13-18)20231003-01	95	103	100	96	92	94	94	93
480-213426-8	ERM-8-20231004-01	92	98	94	92	87	85	89	90
480-213426-9	ERM-16-20231004-01	95	95	94	89	90	84	98	94
480-213426-10	DUP-001-20231004-01	94	93	91	90	91	88	87	90
480-213426-11	ERM-11S-20231004-01	94	90	87	85	92	90	91	82
480-213426-12	ERM-12-20231004-01	94	93	90	87	93	91	86	85
480-213426-13	ERM-13-20231004-01	97	104	97	100	94	96	91	100
480-213426-14	WASTE SAMPLE-20231004-01	93	95	95	93	89	91	90	80
LLCS 280-630319/2-A	Lab Control Sample	92	92	89	87	90	86	78	77
MB 280-630319/1-A	Method Blank	94	101	95	98	94	87	86	87

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Isotope Dilution Summary

Client: ERM-Northeast

Job ID: 480-213426-1

Project/Site: Bennington, VT - Groundwater Analysis

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (10-150)	PFTDA (10-130)	C3PFBS (55-150)	C3PFHS (55-150)	C8PFOS (45-140)	PFOSA (30-130)	d3NMFOS (45-200)	d5NEFOS (10-200)
480-213426-2	FB-20231003-01	80	67	97	92	88	91	101	102
480-213426-3	MW-102-20231003-01	86	71	100	91	90	100	108	114
480-213426-4	MW-104-(5-10)20231003-01	88	84	95	88	76	96	95	101
480-213426-5	MW-104-(10-15)20231003-01	79	75	97	92	83	95	105	113
480-213426-6	MW-103-(8-13)20231003-01	86	77	106	95	81	98	101	104
480-213426-7	MW-103-(13-18)20231003-01	83	81	100	99	87	92	98	105
480-213426-8	ERM-8-20231004-01	82	75	91	93	82	91	96	94
480-213426-9	ERM-16-20231004-01	91	85	96	93	80	92	97	102
480-213426-10	DUP-001-20231004-01	83	80	99	94	81	93	93	100
480-213426-11	ERM-11S-20231004-01	80	73	93	90	85	86	83	85
480-213426-12	ERM-12-20231004-01	77	77	93	87	85	90	96	94
480-213426-13	ERM-13-20231004-01	90	90	102	89	88	98	109	104
480-213426-14	WASTE SAMPLE-20231004-01	70	59	95	91	88	93	96	90
LLCS 280-630319/2-A	Lab Control Sample	75	72	90	86	86	83	86	92
MB 280-630319/1-A	Method Blank	83	70	97	89	82	86	84	86

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (60-200)	M262FTS (60-200)	M282FTS (50-200)	HFPODA (25-160)	NMFM (10-150)	NEFM (10-150)	d5NPFSA (10-130)	d3NMFSA (15-130)
480-213426-2	FB-20231003-01	100	97	96	95	112	109	87	89
480-213426-3	MW-102-20231003-01	113	101	103	90	109	108	83	83
480-213426-4	MW-104-(5-10)20231003-01	103	96	92	93	106	102	86	83
480-213426-5	MW-104-(10-15)20231003-01	114	101	103	95	110	103	84	83
480-213426-6	MW-103-(8-13)20231003-01	115	105	106	93	109	107	90	88
480-213426-7	MW-103-(13-18)20231003-01	115	100	101	95	106	104	84	84
480-213426-8	ERM-8-20231004-01	100	87	88	93	100	97	82	80
480-213426-9	ERM-16-20231004-01	108	94	97	95	100	98	77	76
480-213426-10	DUP-001-20231004-01	114	96	94	89	106	102	81	77
480-213426-11	ERM-11S-20231004-01	90	77	74	86	88	85	69	72
480-213426-12	ERM-12-20231004-01	97	82	86	89	100	102	79	85
480-213426-13	ERM-13-20231004-01	111	90	90	101	114	111	85	84
480-213426-14	WASTE SAMPLE-20231004-01	104	87	91	92	89	80	69	70
LLCS 280-630319/2-A	Lab Control Sample	89	82	83	86	98	95	73	75
MB 280-630319/1-A	Method Blank	98	87	90	94	100	100	80	76

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
 PFDaA = 13C2 PFDaA
 PFTDA = 13C2 PFTeDA
 C3PFBS = 13C3 PFBS
 C3PFHS = 13C3 PFHxS
 C8PFOS = 13C8 PFOS
 PFOSA = 13C8 FOSA
 d3NMFOS = d3-NMeFOSAA

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Isotope Dilution Summary

Client: ERM-Northeast

Job ID: 480-213426-1

Project/Site: Bennington, VT - Groundwater Analysis

d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

Method: Draft 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 (10-130)	PFPeA (40-150)	13C5PHA (40-150)	C4PFHA (40-150)	C8PFOA (30-140)	C9PFNA (30-140)	C6PFDA (20-140)	13C7PUA (20-140)
LCS 280-630319/3-A	Lab Control Sample	94	100	96	96	89	88	91	95
LCSD 280-630319/4-A	Lab Control Sample Dup	93	98	91	91	91	86	89	87

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (10-150)	PFTDA (10-130)	C3PFBS (25-150)	C3PFHS (25-150)	C8PFOS (20-140)	PFOSA (10-130)	d3NMFOS (10-200)	d5NEFOS (10-200)
LCS 280-630319/3-A	Lab Control Sample	87	72	90	87	88	89	88	97
LCSD 280-630319/4-A	Lab Control Sample Dup	83	84	92	86	85	88	99	99

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (25-200)	M262FTS (25-200)	M282FTS (25-200)	HFPODA (25-160)	NMFM (10-150)	NEFM (10-150)	d5NPFSA (10-130)	d3NMFSA (10-130)
LCS 280-630319/3-A	Lab Control Sample	90	83	83	94	96	94	79	76
LCSD 280-630319/4-A	Lab Control Sample Dup	84	82	85	90	107	107	81	79

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
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-686459/8

Matrix: Water

Analysis Batch: 686459

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/07/23 08:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/07/23 08:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/07/23 08:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/07/23 08:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/07/23 08:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/07/23 08:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/07/23 08:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/07/23 08:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/07/23 08:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/07/23 08:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/07/23 08:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/07/23 08:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/07/23 08:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/07/23 08:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/07/23 08:53	1
2-Hexanone	ND		5.0	1.2	ug/L			10/07/23 08:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/07/23 08:53	1
Acetone	ND		10	3.0	ug/L			10/07/23 08:53	1
Benzene	ND		1.0	0.41	ug/L			10/07/23 08:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/07/23 08:53	1
Bromoform	ND		1.0	0.26	ug/L			10/07/23 08:53	1
Bromomethane	ND		1.0	0.69	ug/L			10/07/23 08:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/07/23 08:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/07/23 08:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/07/23 08:53	1
Chloroethane	ND		1.0	0.32	ug/L			10/07/23 08:53	1
Chloroform	ND		1.0	0.34	ug/L			10/07/23 08:53	1
Chloromethane	ND		1.0	0.35	ug/L			10/07/23 08:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/23 08:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/07/23 08:53	1
Cyclohexane	ND		1.0	0.18	ug/L			10/07/23 08:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/07/23 08:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/07/23 08:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/07/23 08:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/07/23 08:53	1
Methyl acetate	ND		2.5	1.3	ug/L			10/07/23 08:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/07/23 08:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/07/23 08:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/07/23 08:53	1
Styrene	ND		1.0	0.73	ug/L			10/07/23 08:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/07/23 08:53	1
Toluene	ND		1.0	0.51	ug/L			10/07/23 08:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/23 08:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/07/23 08:53	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/23 08:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/07/23 08:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/23 08:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/07/23 08:53	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-686459/8

Matrix: Water

Analysis Batch: 686459

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/07/23 08:53	1
4-Bromofluorobenzene (Surr)	110		73 - 120		10/07/23 08:53	1
Dibromofluoromethane (Surr)	103		75 - 123		10/07/23 08:53	1
Toluene-d8 (Surr)	107		80 - 120		10/07/23 08:53	1

Lab Sample ID: LCS 480-686459/6

Matrix: Water

Analysis Batch: 686459

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	27.4		ug/L		109	73 - 126
1,1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1		ug/L		112	61 - 148
1,1,2-Trichloroethane	25.0	26.8		ug/L		107	76 - 122
1,1-Dichloroethane	25.0	24.9		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	28.5		ug/L		114	66 - 127
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.2		ug/L		109	56 - 134
1,2-Dibromoethane	25.0	28.0		ug/L		112	77 - 120
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	23.3		ug/L		93	75 - 120
1,2-Dichloropropane	25.0	26.5		ug/L		106	76 - 120
1,3-Dichlorobenzene	25.0	26.9		ug/L		107	77 - 120
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 120
2-Butanone (MEK)	125	137		ug/L		110	57 - 140
2-Hexanone	125	157		ug/L		126	65 - 127
4-Methyl-2-pentanone (MIBK)	125	141		ug/L		113	71 - 125
Acetone	125	127		ug/L		102	56 - 142
Benzene	25.0	26.2		ug/L		105	71 - 124
Bromodichloromethane	25.0	26.9		ug/L		108	80 - 122
Bromoform	25.0	33.0		ug/L		132	61 - 132
Bromomethane	25.0	23.5		ug/L		94	55 - 144
Carbon disulfide	25.0	28.5		ug/L		114	59 - 134
Carbon tetrachloride	25.0	29.4		ug/L		118	72 - 134
Chlorobenzene	25.0	26.7		ug/L		107	80 - 120
Chloroethane	25.0	23.1		ug/L		92	69 - 136
Chloroform	25.0	24.1		ug/L		96	73 - 127
Chloromethane	25.0	23.3		ug/L		93	68 - 124
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	74 - 124
cis-1,3-Dichloropropene	25.0	27.6		ug/L		110	74 - 124
Cyclohexane	25.0	27.4		ug/L		110	59 - 135
Dibromochloromethane	25.0	29.9		ug/L		120	75 - 125
Dichlorodifluoromethane	25.0	26.6		ug/L		106	59 - 135
Ethylbenzene	25.0	28.0		ug/L		112	77 - 123
Isopropylbenzene	25.0	25.3		ug/L		101	77 - 122
Methyl acetate	50.0	51.9		ug/L		104	74 - 133
Methyl tert-butyl ether	25.0	24.4		ug/L		98	77 - 120
Methylcyclohexane	25.0	27.3		ug/L		109	68 - 134

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-686459/6

Matrix: Water

Analysis Batch: 686459

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	25.0	25.0		ug/L		100	75 - 124
Styrene	25.0	27.9		ug/L		112	80 - 120
Tetrachloroethene	25.0	27.2		ug/L		109	74 - 122
Toluene	25.0	27.0		ug/L		108	80 - 122
trans-1,2-Dichloroethene	25.0	26.1		ug/L		104	73 - 127
trans-1,3-Dichloropropene	25.0	28.3		ug/L		113	80 - 120
Trichloroethene	25.0	25.7		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	29.2		ug/L		117	62 - 150
Vinyl chloride	25.0	26.0		ug/L		104	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: MB 480-686636/8

Matrix: Water

Analysis Batch: 686636

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 17:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/09/23 17:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/09/23 17:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/09/23 17:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/09/23 17:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/09/23 17:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/09/23 17:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/09/23 17:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/09/23 17:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/09/23 17:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/09/23 17:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/09/23 17:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/09/23 17:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/09/23 17:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/09/23 17:09	1
2-Hexanone	ND		5.0	1.2	ug/L			10/09/23 17:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/09/23 17:09	1
Acetone	ND		10	3.0	ug/L			10/09/23 17:09	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 17:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/09/23 17:09	1
Bromoform	ND		1.0	0.26	ug/L			10/09/23 17:09	1
Bromomethane	ND		1.0	0.69	ug/L			10/09/23 17:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/09/23 17:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/09/23 17:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/09/23 17:09	1
Chloroethane	ND		1.0	0.32	ug/L			10/09/23 17:09	1
Chloroform	ND		1.0	0.34	ug/L			10/09/23 17:09	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-686636/8

Matrix: Water

Analysis Batch: 686636

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 17:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/09/23 17:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/09/23 17:09	1
Cyclohexane	ND		1.0	0.18	ug/L			10/09/23 17:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/09/23 17:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/09/23 17:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 17:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/09/23 17:09	1
Methyl acetate	ND		2.5	1.3	ug/L			10/09/23 17:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 17:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/09/23 17:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/09/23 17:09	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 17:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/09/23 17:09	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 17:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/09/23 17:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/09/23 17:09	1
Trichloroethene	ND		1.0	0.46	ug/L			10/09/23 17:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/09/23 17:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/09/23 17:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 17:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/09/23 17:09	1
4-Bromofluorobenzene (Surr)	112		73 - 120		10/09/23 17:09	1
Dibromofluoromethane (Surr)	102		75 - 123		10/09/23 17:09	1
Toluene-d8 (Surr)	108		80 - 120		10/09/23 17:09	1

Lab Sample ID: LCS 480-686636/6

Matrix: Water

Analysis Batch: 686636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	27.3		ug/L		109	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.0		ug/L		112	61 - 148
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	76 - 122
1,1-Dichloroethane	25.0	24.5		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	28.2		ug/L		113	66 - 127
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.1		ug/L		104	56 - 134
1,2-Dibromoethane	25.0	27.4		ug/L		110	77 - 120
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	22.3		ug/L		89	75 - 120
1,2-Dichloropropane	25.0	25.7		ug/L		103	76 - 120
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	77 - 120
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	80 - 120
2-Butanone (MEK)	125	133		ug/L		107	57 - 140

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-686636/6

Matrix: Water

Analysis Batch: 686636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Hexanone	125	157		ug/L		126	65 - 127
4-Methyl-2-pentanone (MIBK)	125	139		ug/L		111	71 - 125
Acetone	125	123		ug/L		99	56 - 142
Benzene	25.0	25.6		ug/L		102	71 - 124
Bromodichloromethane	25.0	26.3		ug/L		105	80 - 122
Bromoform	25.0	34.4	*+	ug/L		138	61 - 132
Bromomethane	25.0	24.4		ug/L		98	55 - 144
Carbon disulfide	25.0	27.9		ug/L		112	59 - 134
Carbon tetrachloride	25.0	29.1		ug/L		116	72 - 134
Chlorobenzene	25.0	26.5		ug/L		106	80 - 120
Chloroethane	25.0	24.4		ug/L		98	69 - 136
Chloroform	25.0	23.4		ug/L		94	73 - 127
Chloromethane	25.0	23.0		ug/L		92	68 - 124
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	27.8		ug/L		111	74 - 124
Cyclohexane	25.0	27.7		ug/L		111	59 - 135
Dibromochloromethane	25.0	29.9		ug/L		120	75 - 125
Dichlorodifluoromethane	25.0	26.9		ug/L		108	59 - 135
Ethylbenzene	25.0	27.7		ug/L		111	77 - 123
Isopropylbenzene	25.0	24.6		ug/L		98	77 - 122
Methyl acetate	50.0	50.8		ug/L		102	74 - 133
Methyl tert-butyl ether	25.0	23.9		ug/L		96	77 - 120
Methylcyclohexane	25.0	27.6		ug/L		111	68 - 134
Methylene Chloride	25.0	24.3		ug/L		97	75 - 124
Styrene	25.0	28.0		ug/L		112	80 - 120
Tetrachloroethene	25.0	27.4		ug/L		110	74 - 122
Toluene	25.0	26.4		ug/L		106	80 - 122
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	73 - 127
trans-1,3-Dichloropropene	25.0	28.6		ug/L		115	80 - 120
Trichloroethene	25.0	25.8		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	29.2		ug/L		117	62 - 150
Vinyl chloride	25.0	25.9		ug/L		104	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	115		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	107		80 - 120

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-196354/1-A

Matrix: Water

Analysis Batch: 196372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 196354

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1
Perfluorodecanoic acid (PFDA)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

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

Lab Sample ID: MB 200-196354/1-A

Matrix: Water

Analysis Batch: 196372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 196354

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1
Perfluorononanoic acid (PFNA)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1
Perfluorooctanoic acid (PFOA)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	2.0	ng/L		10/12/23 07:51	10/12/23 21:27	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	98		50 - 150	10/12/23 07:51	10/12/23 21:27	1
13C2 PFDoA	89		50 - 150	10/12/23 07:51	10/12/23 21:27	1
13C2 PFHxA	101		50 - 150	10/12/23 07:51	10/12/23 21:27	1
13C2 PFTeDA	82		50 - 150	10/12/23 07:51	10/12/23 21:27	1
13C2 PFUnA	91		50 - 150	10/12/23 07:51	10/12/23 21:27	1
13C3 PFBS	93		50 - 150	10/12/23 07:51	10/12/23 21:27	1
13C4 PFHpA	102		50 - 150	10/12/23 07:51	10/12/23 21:27	1
13C4 PFOA	103		50 - 150	10/12/23 07:51	10/12/23 21:27	1
13C4 PFOS	91		50 - 150	10/12/23 07:51	10/12/23 21:27	1
13C5 PFNA	96		50 - 150	10/12/23 07:51	10/12/23 21:27	1
18O2 PFHxS	96		50 - 150	10/12/23 07:51	10/12/23 21:27	1

Lab Sample ID: LCS 200-196354/2-A

Matrix: Water

Analysis Batch: 196372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 196354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanesulfonic acid (PFBS)	71.0	71.4		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	80.0	77.0		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	80.0	74.7		ng/L		93	70 - 130
Perfluoroheptanoic acid (PFHpA)	80.0	80.6		ng/L		101	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	73.1	72.8		ng/L		100	70 - 130
Perfluorohexanoic acid (PFHxA)	80.0	78.7		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	80.0	80.2		ng/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	74.2	70.9		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	80.0	78.3		ng/L		98	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	80.0	79.1		ng/L		99	70 - 130
Perfluorotridecanoic acid (PFTriA)	80.0	77.1		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	80.0	78.5		ng/L		98	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFDA	98		50 - 150
13C2 PFDoA	97		50 - 150

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

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

Lab Sample ID: LCS 200-196354/2-A

Matrix: Water

Analysis Batch: 196372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 196354

<i>Isotope Dilution</i>	<i>LCS %Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
13C2 PFHxA	101		50 - 150
13C2 PFTeDA	88		50 - 150
13C2 PFUnA	100		50 - 150
13C3 PFBS	95		50 - 150
13C4 PFHpA	99		50 - 150
13C4 PFOA	102		50 - 150
13C4 PFOS	99		50 - 150
13C5 PFNA	97		50 - 150
18O2 PFHxS	95		50 - 150

Lab Sample ID: LCSD 200-196354/3-A

Matrix: Water

Analysis Batch: 196372

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 196354

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Perfluorobutanesulfonic acid (PFBS)	71.0	72.0		ng/L		101	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	80.0	85.6		ng/L		107	70 - 130	11	30
Perfluorododecanoic acid (PFDoA)	80.0	75.5		ng/L		94	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	80.0	87.4		ng/L		109	70 - 130	8	30
Perfluorohexanesulfonic acid (PFHxS)	73.1	70.7		ng/L		97	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	80.0	77.8		ng/L		97	70 - 130	1	30
Perfluorononanoic acid (PFNA)	80.0	86.3		ng/L		108	70 - 130	7	30
Perfluorooctanesulfonic acid (PFOS)	74.2	71.0		ng/L		96	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	80.0	73.2		ng/L		91	70 - 130	7	30
Perfluorotetradecanoic acid (PFTeDA)	80.0	80.0		ng/L		100	70 - 130	1	30
Perfluorotridecanoic acid (PFTriA)	80.0	78.6		ng/L		98	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	80.0	83.4		ng/L		104	70 - 130	6	30

<i>Isotope Dilution</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
13C2 PFDA	87		50 - 150
13C2 PFDoA	91		50 - 150
13C2 PFHxA	95		50 - 150
13C2 PFTeDA	82		50 - 150
13C2 PFUnA	87		50 - 150
13C3 PFBS	89		50 - 150
13C4 PFHpA	91		50 - 150
13C4 PFOA	102		50 - 150
13C4 PFOS	92		50 - 150
13C5 PFNA	90		50 - 150
18O2 PFHxS	90		50 - 150

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

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

Lab Sample ID: MB 280-630319/1-A

Matrix: Water

Analysis Batch: 630484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 630319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		8.0	2.0	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluoropentanoic acid (PFPeA)	ND		4.0	1.0	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.52	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.64	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.30	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.57	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.40	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.40	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.90	ng/L		10/19/23 10:34	10/20/23 11:24	1
4:2 FTS	ND		8.0	1.7	ng/L		10/19/23 10:34	10/20/23 11:24	1
6:2 FTS	ND		8.0	2.5	ng/L		10/19/23 10:34	10/20/23 11:24	1
8:2 FTS	ND		8.0	2.6	ng/L		10/19/23 10:34	10/20/23 11:24	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
NMeFOSA	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
NEtFOSA	ND		2.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
NMeFOSAA	ND		4.0	1.2	ng/L		10/19/23 10:34	10/20/23 11:24	1
NEtFOSAA	ND		2.0	0.70	ng/L		10/19/23 10:34	10/20/23 11:24	1
NMeFOSE	ND		20	5.0	ng/L		10/19/23 10:34	10/20/23 11:24	1
NEtFOSE	ND		20	5.0	ng/L		10/19/23 10:34	10/20/23 11:24	1
HFPO-DA (GenX)	ND		8.0	2.0	ng/L		10/19/23 10:34	10/20/23 11:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	1.5	ng/L		10/19/23 10:34	10/20/23 11:24	1
PFMBA	ND		4.0	1.0	ng/L		10/19/23 10:34	10/20/23 11:24	1
NFDHA	ND		4.0	1.0	ng/L		10/19/23 10:34	10/20/23 11:24	1
PFMPA	ND		4.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
9Cl-PF3ONS	ND		8.0	1.0	ng/L		10/19/23 10:34	10/20/23 11:24	1
11Cl-PF3OUdS	ND		8.0	2.0	ng/L		10/19/23 10:34	10/20/23 11:24	1
PFEESA	ND		4.0	0.50	ng/L		10/19/23 10:34	10/20/23 11:24	1
3:3 FTCA	ND		10	1.5	ng/L		10/19/23 10:34	10/20/23 11:24	1
5:3 FTCA	ND		50	10	ng/L		10/19/23 10:34	10/20/23 11:24	1
7:3 FTCA	ND		50	10	ng/L		10/19/23 10:34	10/20/23 11:24	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94		10 - 130	10/19/23 10:34	10/20/23 11:24	1
13C5 PFPeA	101		35 - 150	10/19/23 10:34	10/20/23 11:24	1
13C5 PFHxA	95		55 - 150	10/19/23 10:34	10/20/23 11:24	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

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

Lab Sample ID: MB 280-630319/1-A

Matrix: Water

Analysis Batch: 630484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 630319

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	98		55 - 150	10/19/23 10:34	10/20/23 11:24	1
13C8 PFOA	94		60 - 140	10/19/23 10:34	10/20/23 11:24	1
13C9 PFNA	87		55 - 140	10/19/23 10:34	10/20/23 11:24	1
13C6 PFDA	86		50 - 140	10/19/23 10:34	10/20/23 11:24	1
13C7 PFUnA	87		30 - 140	10/19/23 10:34	10/20/23 11:24	1
13C2 PFDoA	83		10 - 150	10/19/23 10:34	10/20/23 11:24	1
13C2 PFTeDA	70		10 - 130	10/19/23 10:34	10/20/23 11:24	1
13C3 PFBS	97		55 - 150	10/19/23 10:34	10/20/23 11:24	1
13C3 PFHxS	89		55 - 150	10/19/23 10:34	10/20/23 11:24	1
13C8 PFOS	82		45 - 140	10/19/23 10:34	10/20/23 11:24	1
13C8 FOSA	86		30 - 130	10/19/23 10:34	10/20/23 11:24	1
d3-NMeFOSAA	84		45 - 200	10/19/23 10:34	10/20/23 11:24	1
d5-NEtFOSAA	86		10 - 200	10/19/23 10:34	10/20/23 11:24	1
M2-4:2 FTS	98		60 - 200	10/19/23 10:34	10/20/23 11:24	1
M2-6:2 FTS	87		60 - 200	10/19/23 10:34	10/20/23 11:24	1
M2-8:2 FTS	90		50 - 200	10/19/23 10:34	10/20/23 11:24	1
13C3 HFPO-DA	94		25 - 160	10/19/23 10:34	10/20/23 11:24	1
d7-N-MeFOSE-M	100		10 - 150	10/19/23 10:34	10/20/23 11:24	1
d9-N-EtFOSE-M	100		10 - 150	10/19/23 10:34	10/20/23 11:24	1
d5-NEtPFOSA	80		10 - 130	10/19/23 10:34	10/20/23 11:24	1
d3-NMePFOSA	76		15 - 130	10/19/23 10:34	10/20/23 11:24	1

Lab Sample ID: LCS 280-630319/3-A

Matrix: Water

Analysis Batch: 630484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 630319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	128	134		ng/L		105	58 - 148
Perfluoropentanoic acid (PFPeA)	64.0	67.0		ng/L		105	54 - 152
Perfluorohexanoic acid (PFHxA)	32.0	34.5		ng/L		108	55 - 152
Perfluoroheptanoic acid (PFHpA)	32.0	33.2		ng/L		104	54 - 154
Perfluorooctanoic acid (PFOA)	32.0	33.6		ng/L		105	52 - 161
Perfluorononanoic acid (PFNA)	32.0	34.4		ng/L		108	59 - 149
Perfluorodecanoic acid (PFDA)	32.0	34.2		ng/L		107	52 - 147
Perfluoroundecanoic acid (PFUnA)	32.0	32.7		ng/L		102	48 - 159
Perfluorododecanoic acid (PFDoA)	32.0	35.4		ng/L		110	64 - 142
Perfluorotridecanoic acid (PFTriA)	32.0	32.7		ng/L		102	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	32.0	35.8		ng/L		112	47 - 161
Perfluorobutanesulfonic acid (PFBS)	28.4	30.3		ng/L		107	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	30.0	35.1		ng/L		117	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	29.2	31.8		ng/L		109	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	30.5	34.4		ng/L		113	55 - 152

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

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

Lab Sample ID: LCS 280-630319/3-A

Matrix: Water

Analysis Batch: 630484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 630319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	29.8	31.5		ng/L		106	58 - 149
Perfluorononanesulfonic acid (PFNS)	30.8	34.5		ng/L		112	52 - 148
Perfluorodecanesulfonic acid (PFDS)	30.8	33.3		ng/L		108	51 - 147
Perfluorododecanesulfonic acid (PFDoS)	31.0	28.5		ng/L		92	36 - 145
4:2 FTS	120	128		ng/L		107	67 - 146
6:2 FTS	121	127		ng/L		105	61 - 151
8:2 FTS	123	131		ng/L		107	63 - 152
Perfluorooctanesulfonamide (PFOSA)	32.0	35.1		ng/L		110	61 - 148
NMeFOSA	32.0	36.5		ng/L		114	63 - 145
NEtFOSA	32.0	36.2		ng/L		113	65 - 139
NMeFOSAA	32.0	33.0		ng/L		103	58 - 144
NEtFOSAA	32.0	31.2		ng/L		98	59 - 146
NMeFOSE	320	317		ng/L		99	71 - 136
NEtFOSE	320	346		ng/L		108	69 - 137
HFPO-DA (GenX)	128	138		ng/L		107	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	121	132		ng/L		109	68 - 146
PFMBA	64.0	66.0		ng/L		103	55 - 148
NFDHA	64.0	64.5		ng/L		101	48 - 161
PFMPA	64.0	66.8		ng/L		104	51 - 145
9Cl-PF3ONS	119	121		ng/L		101	56 - 156
11Cl-PF3OUdS	121	120		ng/L		100	46 - 156
PFEESA	57.1	61.1		ng/L		107	56 - 151
3:3 FTCA	160	167		ng/L		104	62 - 129
5:3 FTCA	800	869		ng/L		109	63 - 134
7:3 FTCA	800	821		ng/L		103	50 - 138

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	94		10 - 130
13C5 PFPeA	100		40 - 150
13C5 PFHxA	96		40 - 150
13C4 PFHpA	96		40 - 150
13C8 PFOA	89		30 - 140
13C9 PFNA	88		30 - 140
13C6 PFDA	91		20 - 140
13C7 PFUnA	95		20 - 140
13C2 PFDoA	87		10 - 150
13C2 PFTeDA	72		10 - 130
13C3 PFBS	90		25 - 150
13C3 PFHxS	87		25 - 150
13C8 PFOS	88		20 - 140
13C8 FOSA	89		10 - 130
d3-NMeFOSAA	88		10 - 200
d5-NEtFOSAA	97		10 - 200
M2-4:2 FTS	90		25 - 200

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

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

Lab Sample ID: LCS 280-630319/3-A

Matrix: Water

Analysis Batch: 630484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 630319

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
M2-6:2 FTS	83		25 - 200
M2-8:2 FTS	83		25 - 200
13C3 HFPO-DA	94		25 - 160
d7-N-MeFOSE-M	96		10 - 150
d9-N-EtFOSE-M	94		10 - 150
d5-NEtPFOSA	79		10 - 130
d3-NMePFOSA	76		10 - 130

Lab Sample ID: LCSD 280-630319/4-A

Matrix: Water

Analysis Batch: 630484

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 630319

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	128	130		ng/L		102	58 - 148	3	30
Perfluoropentanoic acid (PFPeA)	64.0	63.1		ng/L		99	54 - 152	6	30
Perfluorohexanoic acid (PFHxA)	32.0	33.1		ng/L		103	55 - 152	4	30
Perfluoroheptanoic acid (PFHpA)	32.0	31.9		ng/L		100	54 - 154	4	30
Perfluorooctanoic acid (PFOA)	32.0	31.4		ng/L		98	52 - 161	7	30
Perfluorononanoic acid (PFNA)	32.0	34.3		ng/L		107	59 - 149	0	30
Perfluorodecanoic acid (PFDA)	32.0	33.9		ng/L		106	52 - 147	1	30
Perfluoroundecanoic acid (PFUnA)	32.0	33.6		ng/L		105	48 - 159	3	30
Perfluorododecanoic acid (PFDoA)	32.0	33.3		ng/L		104	64 - 142	6	30
Perfluorotridecanoic acid (PFTriA)	32.0	29.1		ng/L		91	49 - 148	12	30
Perfluorotetradecanoic acid (PFTeDA)	32.0	33.8		ng/L		106	47 - 161	6	30
Perfluorobutanesulfonic acid (PFBS)	28.4	28.4		ng/L		100	62 - 144	7	30
Perfluoropentanesulfonic acid (PFPeS)	30.0	37.2		ng/L		124	59 - 151	6	30
Perfluorohexanesulfonic acid (PFHxS)	29.2	30.9		ng/L		106	57 - 146	3	30
Perfluoroheptanesulfonic acid (PFHpS)	30.5	36.3		ng/L		119	55 - 152	6	30
Perfluorooctanesulfonic acid (PFOS)	29.8	32.5		ng/L		109	58 - 149	3	30
Perfluorononanesulfonic acid (PFNS)	30.8	34.1		ng/L		111	52 - 148	1	30
Perfluorodecanesulfonic acid (PFDS)	30.8	34.5		ng/L		112	51 - 147	3	30
Perfluorododecanesulfonic acid (PFDoS)	31.0	30.2		ng/L		97	36 - 145	6	30
4:2 FTS	120	137		ng/L		115	67 - 146	7	30
6:2 FTS	121	127		ng/L		105	61 - 151	0	30
8:2 FTS	123	125		ng/L		102	63 - 152	5	30
Perfluorooctanesulfonamide (PFOSA)	32.0	35.5		ng/L		111	61 - 148	1	30
NMeFOSA	32.0	34.7		ng/L		108	63 - 145	5	30
NEtFOSA	32.0	33.2		ng/L		104	65 - 139	9	30
NMeFOSAA	32.0	31.3		ng/L		98	58 - 144	5	30

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

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

Lab Sample ID: LCSD 280-630319/4-A

Matrix: Water

Analysis Batch: 630484

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 630319

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSAA	32.0	29.6		ng/L		93	59 - 146	5	30
NMeFOSE	320	344		ng/L		107	71 - 136	8	30
NEtFOSE	320	324		ng/L		101	69 - 137	7	30
HFPO-DA (GenX)	128	136		ng/L		106	63 - 144	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	121	134		ng/L		111	68 - 146	2	30
PFMBA	64.0	63.2		ng/L		99	55 - 148	4	30
NFDHA	64.0	62.8		ng/L		98	48 - 161	3	30
PFMPA	64.0	64.2		ng/L		100	51 - 145	4	30
9Cl-PF3ONS	119	116		ng/L		97	56 - 156	4	30
11Cl-PF3OUdS	121	118		ng/L		98	46 - 156	2	30
PFEESA	57.1	57.4		ng/L		101	56 - 151	6	30
3:3 FTCA	160	165		ng/L		103	62 - 129	1	30
5:3 FTCA	800	855		ng/L		107	63 - 134	2	30
7:3 FTCA	800	830		ng/L		104	50 - 138	1	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	93		10 - 130
13C5 PFPeA	98		40 - 150
13C5 PFHxA	91		40 - 150
13C4 PFHpA	91		40 - 150
13C8 PFOA	91		30 - 140
13C9 PFNA	86		30 - 140
13C6 PFDA	89		20 - 140
13C7 PFUnA	87		20 - 140
13C2 PFDoA	83		10 - 150
13C2 PFTeDA	84		10 - 130
13C3 PFBS	92		25 - 150
13C3 PFHxS	86		25 - 150
13C8 PFOS	85		20 - 140
13C8 FOSA	88		10 - 130
d3-NMeFOSAA	99		10 - 200
d5-NEtFOSAA	99		10 - 200
M2-4:2 FTS	84		25 - 200
M2-6:2 FTS	82		25 - 200
M2-8:2 FTS	85		25 - 200
13C3 HFPO-DA	90		25 - 160
d7-N-MeFOSE-M	107		10 - 150
d9-N-EtFOSE-M	107		10 - 150
d5-NEtPFOSA	81		10 - 130
d3-NMePFOSA	79		10 - 130

Lab Sample ID: LLCS 280-630319/2-A

Matrix: Water

Analysis Batch: 630484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 630319

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	12.8	13.3		ng/L		104	44 - 157
Perfluoropentanoic acid (PFPeA)	6.40	6.77		ng/L		106	57 - 148

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

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

Lab Sample ID: LLCS 280-630319/2-A

Matrix: Water

Analysis Batch: 630484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 630319

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid (PFHxA)	3.20	3.58		ng/L		112	62 - 149
Perfluoroheptanoic acid (PFHpA)	3.20	3.24		ng/L		101	56 - 150
Perfluorooctanoic acid (PFOA)	3.20	3.46		ng/L		108	57 - 161
Perfluorononanoic acid (PFNA)	3.20	3.29		ng/L		103	53 - 157
Perfluorodecanoic acid (PFDA)	3.20	3.35		ng/L		105	43 - 158
Perfluoroundecanoic acid (PFUnA)	3.20	3.27		ng/L		102	50 - 155
Perfluorododecanoic acid (PFDoA)	3.20	3.57		ng/L		112	60 - 141
Perfluorotridecanoic acid (PFTriA)	3.20	2.76		ng/L		86	52 - 140
Perfluorotetradecanoic acid (PFTeDA)	3.20	3.50		ng/L		109	52 - 156
Perfluorobutanesulfonic acid (PFBS)	2.84	2.81		ng/L		99	63 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.00	3.31		ng/L		110	58 - 144
Perfluorohexanesulfonic acid (PFHxS)	2.92	3.10		ng/L		106	44 - 158
Perfluoroheptanesulfonic acid (PFHpS)	3.05	3.59		ng/L		118	51 - 150
Perfluorooctanesulfonic acid (PFOS)	2.98	3.12		ng/L		105	43 - 162
Perfluorononanesulfonic acid (PFNS)	3.08	3.33		ng/L		108	46 - 151
Perfluorodecanesulfonic acid (PFDS)	3.08	3.36		ng/L		109	50 - 144
Perfluorododecanesulfonic acid (PFDoS)	3.10	2.90		ng/L		93	30 - 138
4:2 FTS	12.0	13.6		ng/L		114	52 - 158
6:2 FTS	12.1	13.6		ng/L		112	48 - 158
8:2 FTS	12.3	13.2		ng/L		107	46 - 165
Perfluorooctanesulfonamide (PFOSA)	3.20	3.49		ng/L		109	47 - 163
NMeFOSA	3.20	3.71		ng/L		116	54 - 155
NEtFOSA	3.20	3.42		ng/L		107	49 - 156
NMeFOSAA	3.20	3.62	J	ng/L		113	32 - 160
NEtFOSAA	3.20	3.21		ng/L		100	51 - 154
NMeFOSE	32.0	33.8		ng/L		106	56 - 151
NEtFOSE	32.0	34.0		ng/L		106	60 - 147
HFPO-DA (GenX)	12.8	14.0		ng/L		109	58 - 154
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	12.1	13.9		ng/L		115	61 - 148
PFMBA	6.40	6.74		ng/L		105	49 - 154
NFDHA	6.40	6.48		ng/L		101	47 - 160
PFMPA	6.40	6.66		ng/L		104	48 - 150
9Cl-PF3ONS	11.9	11.8		ng/L		99	44 - 167
11Cl-PF3OUdS	12.1	11.4		ng/L		95	36 - 158
PFEESA	5.71	5.99		ng/L		105	56 - 144
3:3 FTCA	16.0	17.6		ng/L		110	32 - 161
5:3 FTCA	80.0	88.6		ng/L		111	39 - 156
7:3 FTCA	80.0	79.4		ng/L		99	36 - 149

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QC Sample Results

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

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

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	92		10 - 130
13C5 PFPeA	92		35 - 150
13C5 PFHxA	89		55 - 150
13C4 PFHpA	87		55 - 150
13C8 PFOA	90		60 - 140
13C9 PFNA	86		55 - 140
13C6 PFDA	78		50 - 140
13C7 PFUnA	77		30 - 140
13C2 PFDoA	75		10 - 150
13C2 PFTeDA	72		10 - 130
13C3 PFBS	90		55 - 150
13C3 PFHxS	86		55 - 150
13C8 PFOS	86		45 - 140
13C8 FOSA	83		30 - 130
d3-NMeFOSAA	86		45 - 200
d5-NEtFOSAA	92		10 - 200
M2-4:2 FTS	89		60 - 200
M2-6:2 FTS	82		60 - 200
M2-8:2 FTS	83		50 - 200
13C3 HFPO-DA	86		25 - 160
d7-N-MeFOSE-M	98		10 - 150
d9-N-EtFOSE-M	95		10 - 150
d5-NEtPFOSA	73		10 - 130
d3-NMePFOSA	75		15 - 130

QC Association Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

GC/MS VOA

Analysis Batch: 686459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213426-1	TB-20231003-01	Total/NA	Water	8260C	
480-213426-3	MW-102-20231003-01	Total/NA	Water	8260C	
480-213426-4	MW-104-(5-10)20231003-01	Total/NA	Water	8260C	
480-213426-5	MW-104-(10-15)20231003-01	Total/NA	Water	8260C	
480-213426-6	MW-103-(8-13)20231003-01	Total/NA	Water	8260C	
480-213426-7	MW-103-(13-18)20231003-01	Total/NA	Water	8260C	
480-213426-8	ERM-8-20231004-01	Total/NA	Water	8260C	
480-213426-9	ERM-16-20231004-01	Total/NA	Water	8260C	
480-213426-10	DUP-001-20231004-01	Total/NA	Water	8260C	
480-213426-11	ERM-11S-20231004-01	Total/NA	Water	8260C	
480-213426-12	ERM-12-20231004-01	Total/NA	Water	8260C	
480-213426-13	ERM-13-20231004-01	Total/NA	Water	8260C	
MB 480-686459/8	Method Blank	Total/NA	Water	8260C	
LCS 480-686459/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 686636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213426-12 - DL	ERM-12-20231004-01	Total/NA	Water	8260C	
MB 480-686636/8	Method Blank	Total/NA	Water	8260C	
LCS 480-686636/6	Lab Control Sample	Total/NA	Water	8260C	

LCMS

Prep Batch: 196354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213426-5	MW-104-(10-15)20231003-01	Total/NA	Water	3535	
480-213426-6	MW-103-(8-13)20231003-01	Total/NA	Water	3535	
MB 200-196354/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-196354/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-196354/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 196372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213426-5	MW-104-(10-15)20231003-01	Total/NA	Water	537 (modified)	196354
480-213426-6	MW-103-(8-13)20231003-01	Total/NA	Water	537 (modified)	196354
MB 200-196354/1-A	Method Blank	Total/NA	Water	537 (modified)	196354
LCS 200-196354/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	196354
LCSD 200-196354/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	196354

Prep Batch: 630319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213426-2	FB-20231003-01	Total/NA	Water	1633	
480-213426-3	MW-102-20231003-01	Total/NA	Water	1633	
480-213426-4	MW-104-(5-10)20231003-01	Total/NA	Water	1633	
480-213426-5	MW-104-(10-15)20231003-01	Total/NA	Water	1633	
480-213426-6	MW-103-(8-13)20231003-01	Total/NA	Water	1633	
480-213426-7	MW-103-(13-18)20231003-01	Total/NA	Water	1633	
480-213426-8	ERM-8-20231004-01	Total/NA	Water	1633	
480-213426-9	ERM-16-20231004-01	Total/NA	Water	1633	
480-213426-10	DUP-001-20231004-01	Total/NA	Water	1633	
480-213426-11	ERM-11S-20231004-01	Total/NA	Water	1633	

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QC Association Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

LCMS (Continued)

Prep Batch: 630319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213426-12	ERM-12-20231004-01	Total/NA	Water	1633	
480-213426-13	ERM-13-20231004-01	Total/NA	Water	1633	
480-213426-14	WASTE SAMPLE-20231004-01	Total/NA	Water	1633	
MB 280-630319/1-A	Method Blank	Total/NA	Water	1633	
LCS 280-630319/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 280-630319/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 280-630319/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 630484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213426-2	FB-20231003-01	Total/NA	Water	Draft 1633	630319
480-213426-3	MW-102-20231003-01	Total/NA	Water	Draft 1633	630319
480-213426-4	MW-104-(5-10)20231003-01	Total/NA	Water	Draft 1633	630319
480-213426-5	MW-104-(10-15)20231003-01	Total/NA	Water	Draft 1633	630319
480-213426-6	MW-103-(8-13)20231003-01	Total/NA	Water	Draft 1633	630319
480-213426-7	MW-103-(13-18)20231003-01	Total/NA	Water	Draft 1633	630319
480-213426-8	ERM-8-20231004-01	Total/NA	Water	Draft 1633	630319
480-213426-9	ERM-16-20231004-01	Total/NA	Water	Draft 1633	630319
480-213426-10	DUP-001-20231004-01	Total/NA	Water	Draft 1633	630319
480-213426-11	ERM-11S-20231004-01	Total/NA	Water	Draft 1633	630319
480-213426-12	ERM-12-20231004-01	Total/NA	Water	Draft 1633	630319
480-213426-13	ERM-13-20231004-01	Total/NA	Water	Draft 1633	630319
480-213426-14	WASTE SAMPLE-20231004-01	Total/NA	Water	Draft 1633	630319
MB 280-630319/1-A	Method Blank	Total/NA	Water	Draft 1633	630319
LCS 280-630319/3-A	Lab Control Sample	Total/NA	Water	Draft 1633	630319
LCSD 280-630319/4-A	Lab Control Sample Dup	Total/NA	Water	Draft 1633	630319
LLCS 280-630319/2-A	Lab Control Sample	Total/NA	Water	Draft 1633	630319

Lab Chronicle

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: TB-20231003-01

Lab Sample ID: 480-213426-1

Date Collected: 10/03/23 08:00

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 12:12

Client Sample ID: FB-20231003-01

Lab Sample ID: 480-213426-2

Date Collected: 10/03/23 08:10

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 12:42

Client Sample ID: MW-102-20231003-01

Lab Sample ID: 480-213426-3

Date Collected: 10/03/23 10:15

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 12:34
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 13:01

Client Sample ID: MW-104-(5-10)20231003-01

Lab Sample ID: 480-213426-4

Date Collected: 10/03/23 12:40

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 12:56
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 13:20

Client Sample ID: MW-104-(10-15)20231003-01

Lab Sample ID: 480-213426-5

Date Collected: 10/03/23 13:35

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 13:18
Total/NA	Prep	3535			196354	MCK	EET BUR	10/12/23 07:51
Total/NA	Analysis	537 (modified)		1	196372	BWC	EET BUR	10/13/23 00:19
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 13:40

Client Sample ID: MW-103-(8-13)20231003-01

Lab Sample ID: 480-213426-6

Date Collected: 10/03/23 15:00

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 13:40

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Lab Chronicle

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: MW-103-(8-13)20231003-01

Lab Sample ID: 480-213426-6

Date Collected: 10/03/23 15:00

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			196354	MCK	EET BUR	10/12/23 07:51
Total/NA	Analysis	537 (modified)		1	196372	BWC	EET BUR	10/13/23 00:27
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 13:59

Client Sample ID: MW-103-(13-18)20231003-01

Lab Sample ID: 480-213426-7

Date Collected: 10/03/23 15:55

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 14:02
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 14:19

Client Sample ID: ERM-8-20231004-01

Lab Sample ID: 480-213426-8

Date Collected: 10/04/23 08:50

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 14:24
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 14:38

Client Sample ID: ERM-16-20231004-01

Lab Sample ID: 480-213426-9

Date Collected: 10/04/23 10:15

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 14:46
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 14:58

Client Sample ID: DUP-001-20231004-01

Lab Sample ID: 480-213426-10

Date Collected: 10/04/23 12:00

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 15:08
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 15:17

Lab Chronicle

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Client Sample ID: ERM-11S-20231004-01

Lab Sample ID: 480-213426-11

Date Collected: 10/04/23 12:15

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 15:30
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 15:37

Client Sample ID: ERM-12-20231004-01

Lab Sample ID: 480-213426-12

Date Collected: 10/04/23 14:10

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 15:52
Total/NA	Analysis	8260C	DL	4	686636	AXK	EET BUF	10/09/23 18:21
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 16:35

Client Sample ID: ERM-13-20231004-01

Lab Sample ID: 480-213426-13

Date Collected: 10/04/23 15:50

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686459	AXK	EET BUF	10/07/23 16:14
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 16:54

Client Sample ID: WASTE SAMPLE-20231004-01

Lab Sample ID: 480-213426-14

Date Collected: 10/04/23 16:32

Matrix: Water

Date Received: 10/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			630319	MSJ	EET DEN	10/19/23 10:34
Total/NA	Analysis	Draft 1633		1	630484	CTM	EET DEN	10/20/23 17:14

Laboratory References:

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

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-23 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23 *
Georgia	State	10026 (NY)	03-31-24
Georgia	State Program	N/A	03-31-09 *
Illinois	NELAP	200003	09-30-23 *
Iowa	State	374	03-01-25
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-01-24
Kentucky (DW)	State	90029	01-01-24
Kentucky (UST)	State	108092	04-01-24
Kentucky (WW)	State	KY90029	12-31-23
Louisiana	NELAP	02031	06-30-23 *
Louisiana (All)	NELAP	02031	06-30-23 *
Maine	State	NY00044	12-04-24
Maryland	State	294	06-30-24
Massachusetts	State	M-NY044	07-01-24
Michigan	State	9937	04-01-24
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-23
New Jersey	NELAP	NY455	06-30-24
New York	NELAP	10026	03-31-24
Pennsylvania	NELAP	68-00281	08-31-24
Rhode Island	State	LAO00328	12-30-23
Texas	NELAP	T104704412-18-10	07-31-23 *
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23 *
Washington	State	C784	02-10-24
Wisconsin	State	998310390	08-31-24

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-26
Connecticut	State	PH-0751	09-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-18-24
Florida	NELAP	E87467	06-30-24
Minnesota	NELAP	050-999-436	12-31-23
New Hampshire	NELAP	2006	10-18-23
New Jersey	NELAP	VT972	06-30-24
New York	NELAP	10391	03-31-24
Pennsylvania	NELAP	68-00489	04-30-24
Rhode Island	State	LAO00298	12-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-24
Virginia	NELAP	460209	12-14-23
Wisconsin	State	399140830	08-31-24

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

Eurofins Buffalo

Accreditation/Certification Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23 *
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-22 *

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

Eurofins Buffalo

Method Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	EET BUR
Draft 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET DEN
1633	Solid-Phase Extraction (SPE)	EPA	EET DEN
3535	Solid-Phase Extraction (SPE)	SW846	EET BUR
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: ERM-Northeast
Project/Site: Bennington, VT - Groundwater Analysis

Job ID: 480-213426-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-213426-1	TB-20231003-01	Water	10/03/23 08:00	10/06/23 11:00
480-213426-2	FB-20231003-01	Water	10/03/23 08:10	10/06/23 11:00
480-213426-3	MW-102-20231003-01	Water	10/03/23 10:15	10/06/23 11:00
480-213426-4	MW-104-(5-10)20231003-01	Water	10/03/23 12:40	10/06/23 11:00
480-213426-5	MW-104-(10-15)20231003-01	Water	10/03/23 13:35	10/06/23 11:00
480-213426-6	MW-103-(8-13)20231003-01	Water	10/03/23 15:00	10/06/23 11:00
480-213426-7	MW-103-(13-18)20231003-01	Water	10/03/23 15:55	10/06/23 11:00
480-213426-8	ERM-8-20231004-01	Water	10/04/23 08:50	10/06/23 11:00
480-213426-9	ERM-16-20231004-01	Water	10/04/23 10:15	10/06/23 11:00
480-213426-10	DUP-001-20231004-01	Water	10/04/23 12:00	10/06/23 11:00
480-213426-11	ERM-11S-20231004-01	Water	10/04/23 12:15	10/06/23 11:00
480-213426-12	ERM-12-20231004-01	Water	10/04/23 14:10	10/06/23 11:00
480-213426-13	ERM-13-20231004-01	Water	10/04/23 15:50	10/06/23 11:00
480-213426-14	WASTE SAMPLE-20231004-01	Water	10/04/23 16:32	10/06/23 11:00

Client Information		Lab PM		Carrier Tracking No(s)		COC No.					
Client Contact: Jason Hnatko		Schove, John R				480-188845-39780.1					
Company: ERM-Northeast		E-Mail: John.Schove@et.eurofins.com		State of Origin:		Page: Page 1 of 3					
Address: One Beacon Street 5th Floor Boston State, Zip: MA, 02108 Phone: Email: Jason.Hnatko@erm.com Project Name: Bennington, VT - Groundwater Analysis Site: Bennington, VT		PWSID:		Analysis Requested		Job #: 480-213426 Chain of Custody					
Due Date Requested: TAT Requested (days): 2 weeks Compliance Project: ☐ Yes ☒ No PO #: WO #: Project #: 48022276 SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)		Preservation Code:	
TB-20231003-01		10/03/2023		8:00		G		Water		N	
FB-20231003-01				8:10		G		Water		X	
MW-102-20231003-01				10:15		G		Water		X	
MW-104-(5-10)-20231003-01				12:40		G		Water		X	
MW-104-(10-15)-20231003-01				13:35		G		Water		X	
MW-103-(8-13)-20231003-01				15:00		G		Water		X	
MW-103-(13-18)-20231003-01				15:55		G		Water		X	
ERM-8-20231004-01		10/04/2023		8:50		G		Water		X	
ERM-16-20231004-01				10:15		G		Water		X	
DUP-001-20231004-01				12:00		G		Water		X	
ERM-11S-20231004-01				12:15		G		Water		X	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological											
Deliverable Requested: I, II, III, IV, Other (specify)											
Empty Kit Relinquished by:		Date:		Time:		Special Instructions/QC Requirements:		Return To Client ☐ Archive For ☐ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by: Dikshya Khandel Relinquished by: Kevin Oul		Date/Time: 10/05/2023 10:45 10-05-2023 15:00		Date/Time: 10/05/2023 10:45 10/06/23 1100		Company: ERM Eurofins		Company: Eurofins		Company: Eurofins	
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: #1 3.3, 3.5, 3.8							

#224

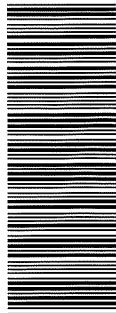
Chain of Custody Record



Environment Testing

Client Information Client Contact: Jason Hnatko Company: ERM-Northeast Address: One Beacon Street 5th Floor City: Boston State, Zip: MA, 02108 Phone: 0658293 Email: Jason.Hnatko@erm.com Project Name: <u>Energy 30x</u> Bennington, VT - Groundwater Analysis Site: <u>Bennington, VT</u>		Lab PM: Schove, John R E-Mail: John.Schove@et.eurofins.com Carrier Tracking No(s): State of Origin: COC No: 480-188845-39780.2 Page: Page 2 of 2 Job #:
Due Date Requested: TAT Requested (days): <u>2 weeks</u> Compliance Project: ☐ Yes ☒ No PO #: 0658293 WO #: 0658293 Project #: 48022276 SSOW#:		Analysis Requested PFC_IDA - PFAS, Vermont 12 Analytes 1633_B24 - 1633 B24 Standard List 8260C - TCL VOCs Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)
Sample Identification ERM-12-20231004-01 ERM-13-20231004-01 Waste-Sample-20231004-01	Sample Date 10/04/23 15:50 16:32	Sample Time 14:10 15:50 16:32
Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) Water Water Water Water Water Water Water Water Water	Sample Type (C=Comp, G=grab) G G C	Preservation Code: A N N A N N A N N A N N A N N A N N A N N A N N A N N A N N
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Total Number of containers 6 6 38 100
Empty Kit Relinquished by: Relinquished by: <u>Dikshya Kharal</u> Date/Time: <u>10-05-2023 10:45</u> Relinquished by: <u>Kevin Doul</u> Date/Time: <u>10-05-2023 15:00</u>		Special Instructions/Note: Waste Sample is only for PFAS.
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For Months		Special Instructions/QC Requirements:
Relinquished by: Relinquished by: <u>Dikshya Kharal</u> Date/Time: <u>10-05-2023 10:45</u> Relinquished by: <u>Kevin Doul</u> Date/Time: <u>10-05-2023 15:00</u>		Method of Shipment: Date/Time: <u>10-05-2023 10:45</u> Date/Time: <u>10-05-2023 15:00</u>
Custody Seals Intact: ☐ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



• eurofins

Environmental Testers

[illegible]

ORIGIN ID:DKKA (716) 691-2600
BUFFALO LAB
EUROFINS BUFFALO
10 HAZELWOOD DRIVE
AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 05OCT23
ACTING: 18 55 LB
CAD: 846854/CAFE3753
DIM: 15x15x10 IN
BILL SENDER

TO - SAMPLE MGT.

EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11

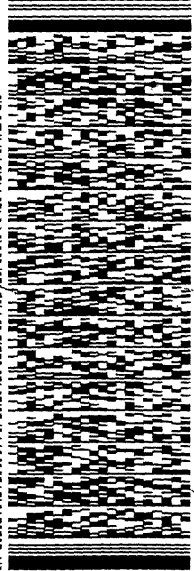
SOUTH BURLINGTON VT 05403

(802) 923-1026

REF: TA SOUTH BURLINGTON



FedEx
Express

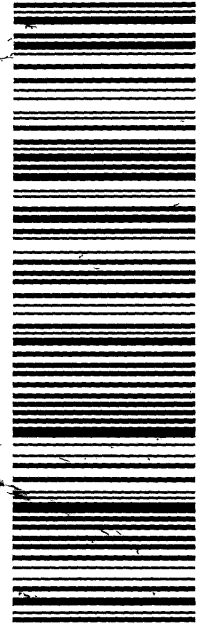


SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 6758 4754 7603
0201

X0 BTVA

05403
VT-US BTV



585C9/3D0A/REB7

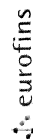
Eurofins Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991



Client Information (Sub Contract Lab) Company: TestAmerica Laboratories, Inc. Address: 4955 Yarrow Street, Arvada, CO 80002 Phone: 303-736-0100(Tel) 303-431-7171(Fax) Email: Bennington, VT - Groundwater Analysis		Lab PM: Schove, John R E-Mail: John.Schove@et.eurofinsus.com State of Origin: Vermont Page 1 of 2		Carrier Tracking No(s): 480-83105.1 Job #: 480-213426-1 Preservation Codes: A - HCL B - NaOH C - Zn/Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Analysis Requested Due Date Requested: 10/19/2023 TAT Requested (days): PO # WG # Project # 48022276 SSOW#		Accreditations Required (See note) Special Instructions/Note:			
Sample Identification - Client ID (Lab ID)		Total Number of Containers			
Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Matrix (Water, Wastewater, Other)		Preservation Code:		Field Filtered Sample (Yes or No)	
Perform MS/MSD (Yes or No)		1633_B24/1633_SPE 1633 B24 Standard List		Special Instructions/Note:	
FB-20231003-01 (480-213426-2)		10/3/23 08:10 Eastern		Water	
MW-102-20231003-01 (480-213426-3)		10/3/23 10:15 Eastern		Water	
MW-104-15-10/20231003-01 (480-213426-4)		10/3/23 12:40 Eastern		Water	
MW-104-(10-15)/20231003-01 (480-213426-5)		10/3/23 13:35 Eastern		Water	
MW-103-(8-13)/20231003-01 (480-213426-6)		10/3/23 15:00 Eastern		Water	
MW-103-(13-18)/20231003-01 (480-213426-7)		10/3/23 15:55 Eastern		Water	
ERM-8-20231004-01 (480-213426-8)		10/4/23 08:50 Eastern		Water	
ERM-16-20231004-01 (480-213426-9)		10/4/23 10:15 Eastern		Water	
DUP-001-20231004-01 (480-213426-10)		10/4/23 12:00 Eastern		Water	
Note: Since laboratory accreditation is subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/method being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditation are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC					
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/OC Requirements:					
Date:		Time:		Method of Shipment	
Company: TAS		Received by:		Date/Time: 10/17/23 1000	
Relinquished by:		Received by:		Date/Time:	
Relinquished by:		Received by:		Date/Time:	
Relinquished by:		Received by:		Date/Time:	
Cooler Temperature(s) °C and Other Remarks: 0.9, 0.1, 10.0, 10.0, 10.0, 10.0					

Chain of Custody Record



2014-15

10 Hazelwood Drive

10 Hazelwood Drive

Amherst, NY 14228-2298

Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

[illegible]

Ver- 06/08/2021

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-213426-1

Login Number: 213426

List Number: 1

Creator: Yeager, Brian A

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

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-213426-1

Login Number: 213426

List Number: 2

Creator: Muniz, Luca

List Source: Eurofins Burlington

List Creation: 10/07/23 11:55 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	2225752
Sample custody seals, if present, are 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	1.2°C
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?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-213426-1

Login Number: 213426

List Number: 3

Creator: Rystrom, Joshua R

List Source: Eurofins Denver

List Creation: 10/07/23 12:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	