

ANALYTICAL REPORT

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Laboratory Job ID: 480-201659-1
Client Project/Site: Groundwater Analysis

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

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

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Definitions/Glossary

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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: Groundwater Analysis

Job ID: 480-201659-1

Job ID: 480-201659-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-201659-1

Comments

No additional comments.

Receipt

The samples were received on 9/15/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: ERM-12-20220912-01 (480-201659-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-641595 recovered above the upper control limit for Chlorodibromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: ERM-12-20220912-01 (480-201659-2), MW-104-5-10-20220913-01 (480-201659-3), MW-103-8-13-20220913-01 (480-201659-4), MW-102-20220913-01 (480-201659-5), ERM-8-20220914-01 (480-201659-8), ERM-16-20220914-01 (480-201659-9) and TB-20220914-01 (480-201659-10).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-641595 recovered outside acceptance criteria, low biased, for 2-Hexanone, Chloromethane, 4-Methyl-2-pentanone (MIBK), and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated samples are impacted: ERM-12-20220912-01 (480-201659-2), MW-104-5-10-20220913-01 (480-201659-3), MW-103-8-13-20220913-01 (480-201659-4), MW-102-20220913-01 (480-201659-5), ERM-8-20220914-01 (480-201659-8), ERM-16-20220914-01 (480-201659-9) and TB-20220914-01 (480-201659-10).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-641595 recovered outside control limits for the following analyte(s): 4-Methyl-2-pentanone (MIBK) and Methyl acetate. 4-Methyl-2-pentanone and Methyl acetate have been identified as poor performing analytes when analyzed using this method; therefore, re-analysis was not performed. These results have been reported and qualified. The associated samples are impacted: ERM-12-20220912-01 (480-201659-2), MW-104-5-10-20220913-01 (480-201659-3), MW-103-8-13-20220913-01 (480-201659-4), MW-102-20220913-01 (480-201659-5), ERM-8-20220914-01 (480-201659-8), ERM-16-20220914-01 (480-201659-9) and TB-20220914-01 (480-201659-10).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-641762 recovered above the upper control limit for Carbon tetrachloride and Chlorodibromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: ERM-13-20220912-01 (480-201659-1), DUP-001-20220913-01 (480-201659-6) and ERM-115-20220913-01 (480-201659-7).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-641762 recovered outside acceptance criteria, low biased, for 2-Hexanone, 1,1,2,2-Tetrachloroethane, Chloromethane, 4-Methyl-2-pentanone (MIBK), and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated samples are impacted: ERM-13-20220912-01 (480-201659-1), DUP-001-20220913-01 (480-201659-6) and ERM-115-20220913-01 (480-201659-7).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-641762 recovered outside control limits for the following analyte(s): 4-Methyl-2-pentanone (MIBK) and Methyl acetate. 4-Methyl-2-pentanone (MIBK) and methyl acetate have been identified as poor performing analytes when analyzed using this method; therefore, re-analysis was not performed. These results have been reported and qualified. The associated samples are impacted: ERM-13-20220912-01 (480-201659-1), DUP-001-20220913-01 (480-201659-6) and ERM-115-20220913-01 (480-201659-7).

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

LCMS

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

Detection Summary

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-13-20220912-01

Lab Sample ID: 480-201659-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.43	J	1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: ERM-12-20220912-01

Lab Sample ID: 480-201659-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	93		2.0	0.72	ug/L	2		8260C	Total/NA

Client Sample ID: MW-104-5-10-20220913-01

Lab Sample ID: 480-201659-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.3		1.0	0.34	ug/L	1		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9	1.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.6		1.9	1.9	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		1.9	1.9	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.4		1.9	1.9	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	20		1.9	1.9	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-103-8-13-20220913-01

Lab Sample ID: 480-201659-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.75	J	1.0	0.34	ug/L	1		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.7		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.8		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.5		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	46		1.8	1.8	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-102-20220913-01

Lab Sample ID: 480-201659-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	3.0		1.8	1.8	ng/L	1		537 (modified)	Total/NA

Client Sample ID: DUP-001-20220913-01

Lab Sample ID: 480-201659-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.78	J	1.0	0.34	ug/L	1		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.3		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.0		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.5		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.5		1.8	1.8	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	47		1.8	1.8	ng/L	1		537 (modified)	Total/NA

Client Sample ID: ERM-115-20220913-01

Lab Sample ID: 480-201659-7

No Detections.

Client Sample ID: ERM-8-20220914-01

Lab Sample ID: 480-201659-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.82	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: ERM-16-20220914-01

Lab Sample ID: 480-201659-9

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

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-16-20220914-01 (Continued)

Lab Sample ID: 480-201659-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	15		1.0	0.36	ug/L	1		8260C	Total/NA

Client Sample ID: TB-20220914-01

Lab Sample ID: 480-201659-10

No Detections.

Client Sample ID: FB-20220914-01

Lab Sample ID: 480-201659-11

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-13-20220912-01

Lab Sample ID: 480-201659-1

Date Collected: 09/12/22 16:25

Matrix: Water

Date Received: 09/15/22 10:00

Method: 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			09/16/22 21:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/16/22 21:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/16/22 21:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/16/22 21:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/16/22 21:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/16/22 21:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/16/22 21:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/16/22 21:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/16/22 21:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/16/22 21:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/16/22 21:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/16/22 21:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/16/22 21:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/16/22 21:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/16/22 21:32	1
2-Hexanone	ND		5.0	1.2	ug/L			09/16/22 21:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/16/22 21:32	1
Acetone	ND		10	3.0	ug/L			09/16/22 21:32	1
Benzene	ND		1.0	0.41	ug/L			09/16/22 21:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/16/22 21:32	1
Bromoform	ND		1.0	0.26	ug/L			09/16/22 21:32	1
Bromomethane	ND		1.0	0.69	ug/L			09/16/22 21:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/16/22 21:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/16/22 21:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/16/22 21:32	1
Chloroethane	ND		1.0	0.32	ug/L			09/16/22 21:32	1
Chloroform	0.43	J	1.0	0.34	ug/L			09/16/22 21:32	1
Chloromethane	ND		1.0	0.35	ug/L			09/16/22 21:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/16/22 21:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/16/22 21:32	1
Cyclohexane	ND		1.0	0.18	ug/L			09/16/22 21:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/16/22 21:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/16/22 21:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/22 21:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/16/22 21:32	1
Methyl acetate	ND		2.5	1.3	ug/L			09/16/22 21:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/16/22 21:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/16/22 21:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/16/22 21:32	1
Styrene	ND		1.0	0.73	ug/L			09/16/22 21:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/16/22 21:32	1
Toluene	ND		1.0	0.51	ug/L			09/16/22 21:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/16/22 21:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/16/22 21:32	1
Trichloroethene	ND		1.0	0.46	ug/L			09/16/22 21:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/16/22 21:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/16/22 21:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/22 21:32	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-13-20220912-01

Lab Sample ID: 480-201659-1

Date Collected: 09/12/22 16:25

Matrix: Water

Date Received: 09/15/22 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		09/16/22 21:32	1
4-Bromofluorobenzene (Surr)	104		73 - 120		09/16/22 21:32	1
Dibromofluoromethane (Surr)	104		75 - 123		09/16/22 21:32	1
Toluene-d8 (Surr)	87		80 - 120		09/16/22 21:32	1

Client Sample ID: ERM-12-20220912-01

Lab Sample ID: 480-201659-2

Date Collected: 09/12/22 17:35

Matrix: Water

Date Received: 09/15/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			09/15/22 19:28	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			09/15/22 19:28	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			09/15/22 19:28	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			09/15/22 19:28	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			09/15/22 19:28	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			09/15/22 19:28	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			09/15/22 19:28	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			09/15/22 19:28	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			09/15/22 19:28	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			09/15/22 19:28	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			09/15/22 19:28	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			09/15/22 19:28	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			09/15/22 19:28	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			09/15/22 19:28	2
2-Butanone (MEK)	ND		20	2.6	ug/L			09/15/22 19:28	2
2-Hexanone	ND		10	2.5	ug/L			09/15/22 19:28	2
4-Methyl-2-pentanone (MIBK)	ND	*	10	4.2	ug/L			09/15/22 19:28	2
Acetone	ND		20	6.0	ug/L			09/15/22 19:28	2
Benzene	ND		2.0	0.82	ug/L			09/15/22 19:28	2
Bromodichloromethane	ND		2.0	0.78	ug/L			09/15/22 19:28	2
Bromoform	ND		2.0	0.52	ug/L			09/15/22 19:28	2
Bromomethane	ND		2.0	1.4	ug/L			09/15/22 19:28	2
Carbon disulfide	ND		2.0	0.38	ug/L			09/15/22 19:28	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			09/15/22 19:28	2
Chlorobenzene	ND		2.0	1.5	ug/L			09/15/22 19:28	2
Chloroethane	ND		2.0	0.64	ug/L			09/15/22 19:28	2
Chloroform	ND		2.0	0.68	ug/L			09/15/22 19:28	2
Chloromethane	ND		2.0	0.70	ug/L			09/15/22 19:28	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			09/15/22 19:28	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			09/15/22 19:28	2
Cyclohexane	ND		2.0	0.36	ug/L			09/15/22 19:28	2
Dibromochloromethane	ND		2.0	0.64	ug/L			09/15/22 19:28	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			09/15/22 19:28	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/15/22 19:28	2
Isopropylbenzene	ND		2.0	1.6	ug/L			09/15/22 19:28	2
Methyl acetate	ND	*	5.0	2.6	ug/L			09/15/22 19:28	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			09/15/22 19:28	2
Methylcyclohexane	ND		2.0	0.32	ug/L			09/15/22 19:28	2
Methylene Chloride	ND		2.0	0.88	ug/L			09/15/22 19:28	2

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-12-20220912-01

Lab Sample ID: 480-201659-2

Date Collected: 09/12/22 17:35

Matrix: Water

Date Received: 09/15/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2.0	1.5	ug/L			09/15/22 19:28	2
Tetrachloroethene	93		2.0	0.72	ug/L			09/15/22 19:28	2
Toluene	ND		2.0	1.0	ug/L			09/15/22 19:28	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/15/22 19:28	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			09/15/22 19:28	2
Trichloroethene	ND		2.0	0.92	ug/L			09/15/22 19:28	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			09/15/22 19:28	2
Vinyl chloride	ND		2.0	1.8	ug/L			09/15/22 19:28	2
Xylenes, Total	ND		4.0	1.3	ug/L			09/15/22 19:28	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		09/15/22 19:28	2
4-Bromofluorobenzene (Surr)	103		73 - 120		09/15/22 19:28	2
Dibromofluoromethane (Surr)	110		75 - 123		09/15/22 19:28	2
Toluene-d8 (Surr)	93		80 - 120		09/15/22 19:28	2

Client Sample ID: MW-104-5-10-20220913-01

Lab Sample ID: 480-201659-3

Date Collected: 09/13/22 09:15

Matrix: Water

Date Received: 09/15/22 10:00

Method: 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			09/15/22 19:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/15/22 19:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/15/22 19:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/15/22 19:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/15/22 19:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/15/22 19:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/15/22 19:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/15/22 19:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/15/22 19:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/15/22 19:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/15/22 19:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/15/22 19:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/15/22 19:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/15/22 19:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/15/22 19:51	1
2-Hexanone	ND		5.0	1.2	ug/L			09/15/22 19:51	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.1	ug/L			09/15/22 19:51	1
Acetone	ND		10	3.0	ug/L			09/15/22 19:51	1
Benzene	ND		1.0	0.41	ug/L			09/15/22 19:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/15/22 19:51	1
Bromoform	ND		1.0	0.26	ug/L			09/15/22 19:51	1
Bromomethane	ND		1.0	0.69	ug/L			09/15/22 19:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/15/22 19:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/15/22 19:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/15/22 19:51	1
Chloroethane	ND		1.0	0.32	ug/L			09/15/22 19:51	1
Chloroform	1.3		1.0	0.34	ug/L			09/15/22 19:51	1
Chloromethane	ND		1.0	0.35	ug/L			09/15/22 19:51	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: MW-104-5-10-20220913-01

Lab Sample ID: 480-201659-3

Date Collected: 09/13/22 09:15

Matrix: Water

Date Received: 09/15/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/15/22 19:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/15/22 19:51	1
Cyclohexane	ND		1.0	0.18	ug/L			09/15/22 19:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/15/22 19:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/15/22 19:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/15/22 19:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/15/22 19:51	1
Methyl acetate	ND	*	2.5	1.3	ug/L			09/15/22 19:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/15/22 19:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/15/22 19:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/15/22 19:51	1
Styrene	ND		1.0	0.73	ug/L			09/15/22 19:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/15/22 19:51	1
Toluene	ND		1.0	0.51	ug/L			09/15/22 19:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/15/22 19:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/15/22 19:51	1
Trichloroethene	ND		1.0	0.46	ug/L			09/15/22 19:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/15/22 19:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/15/22 19:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/15/22 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		09/15/22 19:51	1
4-Bromofluorobenzene (Surr)	99		73 - 120		09/15/22 19:51	1
Dibromofluoromethane (Surr)	100		75 - 123		09/15/22 19:51	1
Toluene-d8 (Surr)	89		80 - 120		09/15/22 19:51	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluorodecanoic acid (PFDA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluoroheptanoic acid (PFHpA)	2.6		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluorohexanoic acid (PFHxA)	2.5		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluorononanoic acid (PFNA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluorooctanesulfonic acid (PFOS)	3.4		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluorooctanoic acid (PFOA)	20		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	95		50 - 150	09/19/22 11:42	09/19/22 20:05	1
13C2 PFDoA	89		50 - 150	09/19/22 11:42	09/19/22 20:05	1
13C2 PFHxA	99		50 - 150	09/19/22 11:42	09/19/22 20:05	1
13C2 PFTeDA	86		50 - 150	09/19/22 11:42	09/19/22 20:05	1
13C2 PFUnA	89		50 - 150	09/19/22 11:42	09/19/22 20:05	1
13C3 PFBS	97		50 - 150	09/19/22 11:42	09/19/22 20:05	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: MW-104-5-10-20220913-01

Lab Sample ID: 480-201659-3

Date Collected: 09/13/22 09:15

Matrix: Water

Date Received: 09/15/22 10:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	98		50 - 150	09/19/22 11:42	09/19/22 20:05	1
13C4 PFOA	100		50 - 150	09/19/22 11:42	09/19/22 20:05	1
13C4 PFOS	92		50 - 150	09/19/22 11:42	09/19/22 20:05	1
13C5 PFNA	93		50 - 150	09/19/22 11:42	09/19/22 20:05	1
18O2 PFHxS	94		50 - 150	09/19/22 11:42	09/19/22 20:05	1

Client Sample ID: MW-103-8-13-20220913-01

Lab Sample ID: 480-201659-4

Date Collected: 09/13/22 10:55

Matrix: Water

Date Received: 09/15/22 10:00

Method: 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			09/15/22 20:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/15/22 20:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/15/22 20:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/15/22 20:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/15/22 20:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/15/22 20:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/15/22 20:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/15/22 20:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/15/22 20:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/15/22 20:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/15/22 20:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/15/22 20:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/15/22 20:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/15/22 20:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/15/22 20:15	1
2-Hexanone	ND		5.0	1.2	ug/L			09/15/22 20:15	1
4-Methyl-2-pentanone (MIBK)	ND	*-	5.0	2.1	ug/L			09/15/22 20:15	1
Acetone	ND		10	3.0	ug/L			09/15/22 20:15	1
Benzene	ND		1.0	0.41	ug/L			09/15/22 20:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/15/22 20:15	1
Bromoform	ND		1.0	0.26	ug/L			09/15/22 20:15	1
Bromomethane	ND		1.0	0.69	ug/L			09/15/22 20:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/15/22 20:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/15/22 20:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/15/22 20:15	1
Chloroethane	ND		1.0	0.32	ug/L			09/15/22 20:15	1
Chloroform	0.75	J	1.0	0.34	ug/L			09/15/22 20:15	1
Chloromethane	ND		1.0	0.35	ug/L			09/15/22 20:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/15/22 20:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/15/22 20:15	1
Cyclohexane	ND		1.0	0.18	ug/L			09/15/22 20:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/15/22 20:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/15/22 20:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/15/22 20:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/15/22 20:15	1
Methyl acetate	ND	*-	2.5	1.3	ug/L			09/15/22 20:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/15/22 20:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/15/22 20:15	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: MW-103-8-13-20220913-01

Lab Sample ID: 480-201659-4

Date Collected: 09/13/22 10:55

Matrix: Water

Date Received: 09/15/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.44	ug/L			09/15/22 20:15	1
Styrene	ND		1.0	0.73	ug/L			09/15/22 20:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/15/22 20:15	1
Toluene	ND		1.0	0.51	ug/L			09/15/22 20:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/15/22 20:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/15/22 20:15	1
Trichloroethene	ND		1.0	0.46	ug/L			09/15/22 20:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/15/22 20:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/15/22 20:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/15/22 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		09/15/22 20:15	1
4-Bromofluorobenzene (Surr)	103		73 - 120		09/15/22 20:15	1
Dibromofluoromethane (Surr)	109		75 - 123		09/15/22 20:15	1
Toluene-d8 (Surr)	89		80 - 120		09/15/22 20:15	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.2		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluorodecanoic acid (PFDA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluoroheptanoic acid (PFHpA)	3.7		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluorohexanoic acid (PFHxA)	3.8		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluorononanoic acid (PFNA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluorooctanesulfonic acid (PFOS)	2.5		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluorooctanoic acid (PFOA)	46		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	96		50 - 150	09/19/22 11:42	09/19/22 20:13	1
13C2 PFDoA	89		50 - 150	09/19/22 11:42	09/19/22 20:13	1
13C2 PFHxA	93		50 - 150	09/19/22 11:42	09/19/22 20:13	1
13C2 PFTeDA	86		50 - 150	09/19/22 11:42	09/19/22 20:13	1
13C2 PFUnA	92		50 - 150	09/19/22 11:42	09/19/22 20:13	1
13C3 PFBS	95		50 - 150	09/19/22 11:42	09/19/22 20:13	1
13C4 PFHpA	100		50 - 150	09/19/22 11:42	09/19/22 20:13	1
13C4 PFOA	100		50 - 150	09/19/22 11:42	09/19/22 20:13	1
13C4 PFOS	91		50 - 150	09/19/22 11:42	09/19/22 20:13	1
13C5 PFNA	94		50 - 150	09/19/22 11:42	09/19/22 20:13	1
18O2 PFHxS	91		50 - 150	09/19/22 11:42	09/19/22 20:13	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: MW-102-20220913-01

Lab Sample ID: 480-201659-5

Date Collected: 09/13/22 13:50

Matrix: Water

Date Received: 09/15/22 10:00

Method: 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			09/15/22 20:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/15/22 20:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/15/22 20:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/15/22 20:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/15/22 20:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/15/22 20:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/15/22 20:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/15/22 20:38	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/15/22 20:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/15/22 20:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/15/22 20:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/15/22 20:38	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/15/22 20:38	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/15/22 20:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/15/22 20:38	1
2-Hexanone	ND		5.0	1.2	ug/L			09/15/22 20:38	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.1	ug/L			09/15/22 20:38	1
Acetone	ND		10	3.0	ug/L			09/15/22 20:38	1
Benzene	ND		1.0	0.41	ug/L			09/15/22 20:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/15/22 20:38	1
Bromoform	ND		1.0	0.26	ug/L			09/15/22 20:38	1
Bromomethane	ND		1.0	0.69	ug/L			09/15/22 20:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/15/22 20:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/15/22 20:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/15/22 20:38	1
Chloroethane	ND		1.0	0.32	ug/L			09/15/22 20:38	1
Chloroform	ND		1.0	0.34	ug/L			09/15/22 20:38	1
Chloromethane	ND		1.0	0.35	ug/L			09/15/22 20:38	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/15/22 20:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/15/22 20:38	1
Cyclohexane	ND		1.0	0.18	ug/L			09/15/22 20:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/15/22 20:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/15/22 20:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/15/22 20:38	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/15/22 20:38	1
Methyl acetate	ND	*	2.5	1.3	ug/L			09/15/22 20:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/15/22 20:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/15/22 20:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/15/22 20:38	1
Styrene	ND		1.0	0.73	ug/L			09/15/22 20:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/15/22 20:38	1
Toluene	ND		1.0	0.51	ug/L			09/15/22 20:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/15/22 20:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/15/22 20:38	1
Trichloroethene	ND		1.0	0.46	ug/L			09/15/22 20:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/15/22 20:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/15/22 20:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/15/22 20:38	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: MW-102-20220913-01

Lab Sample ID: 480-201659-5

Date Collected: 09/13/22 13:50

Matrix: Water

Date Received: 09/15/22 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		09/15/22 20:38	1
4-Bromofluorobenzene (Surr)	104		73 - 120		09/15/22 20:38	1
Dibromofluoromethane (Surr)	103		75 - 123		09/15/22 20:38	1
Toluene-d8 (Surr)	92		80 - 120		09/15/22 20:38	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluorodecanoic acid (PFDA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluorononanoic acid (PFNA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluorooctanoic acid (PFOA)	3.0		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	94		50 - 150				09/19/22 11:42	09/19/22 20:21	1
13C2 PFDoA	89		50 - 150				09/19/22 11:42	09/19/22 20:21	1
13C2 PFHxA	96		50 - 150				09/19/22 11:42	09/19/22 20:21	1
13C2 PFTeDA	88		50 - 150				09/19/22 11:42	09/19/22 20:21	1
13C2 PFUnA	96		50 - 150				09/19/22 11:42	09/19/22 20:21	1
13C3 PFBS	98		50 - 150				09/19/22 11:42	09/19/22 20:21	1
13C4 PFHpA	102		50 - 150				09/19/22 11:42	09/19/22 20:21	1
13C4 PFOA	98		50 - 150				09/19/22 11:42	09/19/22 20:21	1
13C4 PFOS	93		50 - 150				09/19/22 11:42	09/19/22 20:21	1
13C5 PFNA	95		50 - 150				09/19/22 11:42	09/19/22 20:21	1
18O2 PFHxS	92		50 - 150				09/19/22 11:42	09/19/22 20:21	1

Client Sample ID: DUP-001-20220913-01

Lab Sample ID: 480-201659-6

Date Collected: 09/13/22 12:00

Matrix: Water

Date Received: 09/15/22 10:00

Method: 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			09/16/22 21:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/16/22 21:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/16/22 21:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/16/22 21:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/16/22 21:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/16/22 21:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/16/22 21:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/16/22 21:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/16/22 21:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/16/22 21:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/16/22 21:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/16/22 21:55	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: DUP-001-20220913-01

Lab Sample ID: 480-201659-6

Date Collected: 09/13/22 12:00

Matrix: Water

Date Received: 09/15/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/16/22 21:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/16/22 21:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/16/22 21:55	1
2-Hexanone	ND		5.0	1.2	ug/L			09/16/22 21:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/16/22 21:55	1
Acetone	ND		10	3.0	ug/L			09/16/22 21:55	1
Benzene	ND		1.0	0.41	ug/L			09/16/22 21:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/16/22 21:55	1
Bromoform	ND		1.0	0.26	ug/L			09/16/22 21:55	1
Bromomethane	ND		1.0	0.69	ug/L			09/16/22 21:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/16/22 21:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/16/22 21:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/16/22 21:55	1
Chloroethane	ND		1.0	0.32	ug/L			09/16/22 21:55	1
Chloroform	0.78	J	1.0	0.34	ug/L			09/16/22 21:55	1
Chloromethane	ND		1.0	0.35	ug/L			09/16/22 21:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/16/22 21:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/16/22 21:55	1
Cyclohexane	ND		1.0	0.18	ug/L			09/16/22 21:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/16/22 21:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/16/22 21:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/22 21:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/16/22 21:55	1
Methyl acetate	ND		2.5	1.3	ug/L			09/16/22 21:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/16/22 21:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/16/22 21:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/16/22 21:55	1
Styrene	ND		1.0	0.73	ug/L			09/16/22 21:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/16/22 21:55	1
Toluene	ND		1.0	0.51	ug/L			09/16/22 21:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/16/22 21:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/16/22 21:55	1
Trichloroethene	ND		1.0	0.46	ug/L			09/16/22 21:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/16/22 21:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/16/22 21:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/22 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		09/16/22 21:55	1
4-Bromofluorobenzene (Surr)	100		73 - 120		09/16/22 21:55	1
Dibromofluoromethane (Surr)	104		75 - 123		09/16/22 21:55	1
Toluene-d8 (Surr)	90		80 - 120		09/16/22 21:55	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.3		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Perfluorodecanoic acid (PFDA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Perfluoroheptanoic acid (PFHpA)	4.0		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: DUP-001-20220913-01

Lab Sample ID: 480-201659-6

Date Collected: 09/13/22 12:00

Matrix: Water

Date Received: 09/15/22 10:00

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Perfluorohexanoic acid (PFHxA)	3.5		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Perfluorononanoic acid (PFNA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Perfluorooctanesulfonic acid (PFOS)	2.5		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Perfluorooctanoic acid (PFOA)	47		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	89		50 - 150				09/19/22 11:42	09/19/22 20:30	1
13C2 PFDaA	93		50 - 150				09/19/22 11:42	09/19/22 20:30	1
13C2 PFHxA	95		50 - 150				09/19/22 11:42	09/19/22 20:30	1
13C2 PFTeDA	90		50 - 150				09/19/22 11:42	09/19/22 20:30	1
13C2 PFUnA	92		50 - 150				09/19/22 11:42	09/19/22 20:30	1
13C3 PFBS	90		50 - 150				09/19/22 11:42	09/19/22 20:30	1
13C4 PFHpA	95		50 - 150				09/19/22 11:42	09/19/22 20:30	1
13C4 PFOA	97		50 - 150				09/19/22 11:42	09/19/22 20:30	1
13C4 PFOS	91		50 - 150				09/19/22 11:42	09/19/22 20:30	1
13C5 PFNA	94		50 - 150				09/19/22 11:42	09/19/22 20:30	1
18O2 PFHxS	90		50 - 150				09/19/22 11:42	09/19/22 20:30	1

Client Sample ID: ERM-115-20220913-01

Lab Sample ID: 480-201659-7

Date Collected: 09/13/22 16:45

Matrix: Water

Date Received: 09/15/22 10:00

Method: 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			09/16/22 22:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/16/22 22:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/16/22 22:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/16/22 22:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/16/22 22:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/16/22 22:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/16/22 22:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/16/22 22:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/16/22 22:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/16/22 22:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/16/22 22:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/16/22 22:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/16/22 22:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/16/22 22:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/16/22 22:18	1
2-Hexanone	ND		5.0	1.2	ug/L			09/16/22 22:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/16/22 22:18	1
Acetone	ND		10	3.0	ug/L			09/16/22 22:18	1
Benzene	ND		1.0	0.41	ug/L			09/16/22 22:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/16/22 22:18	1
Bromoform	ND		1.0	0.26	ug/L			09/16/22 22:18	1
Bromomethane	ND		1.0	0.69	ug/L			09/16/22 22:18	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-115-20220913-01

Lab Sample ID: 480-201659-7

Date Collected: 09/13/22 16:45

Matrix: Water

Date Received: 09/15/22 10:00

Method: 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			09/16/22 22:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/16/22 22:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/16/22 22:18	1
Chloroethane	ND		1.0	0.32	ug/L			09/16/22 22:18	1
Chloroform	ND		1.0	0.34	ug/L			09/16/22 22:18	1
Chloromethane	ND		1.0	0.35	ug/L			09/16/22 22:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/16/22 22:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/16/22 22:18	1
Cyclohexane	ND		1.0	0.18	ug/L			09/16/22 22:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/16/22 22:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/16/22 22:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/22 22:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/16/22 22:18	1
Methyl acetate	ND		2.5	1.3	ug/L			09/16/22 22:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/16/22 22:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/16/22 22:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/16/22 22:18	1
Styrene	ND		1.0	0.73	ug/L			09/16/22 22:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/16/22 22:18	1
Toluene	ND		1.0	0.51	ug/L			09/16/22 22:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/16/22 22:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/16/22 22:18	1
Trichloroethene	ND		1.0	0.46	ug/L			09/16/22 22:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/16/22 22:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/16/22 22:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/22 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120		09/16/22 22:18	1
4-Bromofluorobenzene (Surr)	99		73 - 120		09/16/22 22:18	1
Dibromofluoromethane (Surr)	101		75 - 123		09/16/22 22:18	1
Toluene-d8 (Surr)	90		80 - 120		09/16/22 22:18	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluorodecanoic acid (PFDA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluorononanoic acid (PFNA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluorooctanoic acid (PFOA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.9	ng/L		09/19/22 11:42	09/19/22 20:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	87		50 - 150	09/19/22 11:42	09/19/22 20:38	1
13C2 PFDoA	82		50 - 150	09/19/22 11:42	09/19/22 20:38	1

Eurofins Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-115-20220913-01

Lab Sample ID: 480-201659-7

Date Collected: 09/13/22 16:45

Matrix: Water

Date Received: 09/15/22 10:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		50 - 150	09/19/22 11:42	09/19/22 20:38	1
13C2 PFTeDA	74		50 - 150	09/19/22 11:42	09/19/22 20:38	1
13C2 PFUnA	81		50 - 150	09/19/22 11:42	09/19/22 20:38	1
13C3 PFBS	90		50 - 150	09/19/22 11:42	09/19/22 20:38	1
13C4 PFHpA	93		50 - 150	09/19/22 11:42	09/19/22 20:38	1
13C4 PFOA	96		50 - 150	09/19/22 11:42	09/19/22 20:38	1
13C4 PFOS	81		50 - 150	09/19/22 11:42	09/19/22 20:38	1
13C5 PFNA	90		50 - 150	09/19/22 11:42	09/19/22 20:38	1
18O2 PFHxS	85		50 - 150	09/19/22 11:42	09/19/22 20:38	1

Client Sample ID: ERM-8-20220914-01

Lab Sample ID: 480-201659-8

Date Collected: 09/14/22 08:30

Matrix: Water

Date Received: 09/15/22 10:00

Method: 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			09/15/22 21:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/15/22 21:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/15/22 21:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/15/22 21:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/15/22 21:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/15/22 21:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/15/22 21:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/15/22 21:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/15/22 21:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/15/22 21:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/15/22 21:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/15/22 21:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/15/22 21:48	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/15/22 21:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/15/22 21:48	1
2-Hexanone	ND		5.0	1.2	ug/L			09/15/22 21:48	1
4-Methyl-2-pentanone (MIBK)	ND	*-	5.0	2.1	ug/L			09/15/22 21:48	1
Acetone	ND		10	3.0	ug/L			09/15/22 21:48	1
Benzene	ND		1.0	0.41	ug/L			09/15/22 21:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/15/22 21:48	1
Bromoform	ND		1.0	0.26	ug/L			09/15/22 21:48	1
Bromomethane	ND		1.0	0.69	ug/L			09/15/22 21:48	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/15/22 21:48	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/15/22 21:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/15/22 21:48	1
Chloroethane	ND		1.0	0.32	ug/L			09/15/22 21:48	1
Chloroform	ND		1.0	0.34	ug/L			09/15/22 21:48	1
Chloromethane	ND		1.0	0.35	ug/L			09/15/22 21:48	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/15/22 21:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/15/22 21:48	1
Cyclohexane	ND		1.0	0.18	ug/L			09/15/22 21:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/15/22 21:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/15/22 21:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/15/22 21:48	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-8-20220914-01

Lab Sample ID: 480-201659-8

Date Collected: 09/14/22 08:30

Matrix: Water

Date Received: 09/15/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.79	ug/L			09/15/22 21:48	1
Methyl acetate	ND	*-	2.5	1.3	ug/L			09/15/22 21:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/15/22 21:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/15/22 21:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/15/22 21:48	1
Styrene	ND		1.0	0.73	ug/L			09/15/22 21:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/15/22 21:48	1
Toluene	ND		1.0	0.51	ug/L			09/15/22 21:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/15/22 21:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/15/22 21:48	1
Trichloroethene	0.82	J	1.0	0.46	ug/L			09/15/22 21:48	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/15/22 21:48	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/15/22 21:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/15/22 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120					09/15/22 21:48	1
4-Bromofluorobenzene (Surr)	102		73 - 120					09/15/22 21:48	1
Dibromofluoromethane (Surr)	102		75 - 123					09/15/22 21:48	1
Toluene-d8 (Surr)	89		80 - 120					09/15/22 21:48	1

Client Sample ID: ERM-16-20220914-01

Lab Sample ID: 480-201659-9

Date Collected: 09/14/22 10:40

Matrix: Water

Date Received: 09/15/22 10:00

Method: 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			09/15/22 22:11	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/15/22 22:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/15/22 22:11	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/15/22 22:11	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/15/22 22:11	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/15/22 22:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/15/22 22:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/15/22 22:11	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/15/22 22:11	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/15/22 22:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/15/22 22:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/15/22 22:11	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/15/22 22:11	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/15/22 22:11	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/15/22 22:11	1
2-Hexanone	ND		5.0	1.2	ug/L			09/15/22 22:11	1
4-Methyl-2-pentanone (MIBK)	ND	*-	5.0	2.1	ug/L			09/15/22 22:11	1
Acetone	ND		10	3.0	ug/L			09/15/22 22:11	1
Benzene	ND		1.0	0.41	ug/L			09/15/22 22:11	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/15/22 22:11	1
Bromoform	ND		1.0	0.26	ug/L			09/15/22 22:11	1
Bromomethane	ND		1.0	0.69	ug/L			09/15/22 22:11	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/15/22 22:11	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-16-20220914-01

Lab Sample ID: 480-201659-9

Date Collected: 09/14/22 10:40

Matrix: Water

Date Received: 09/15/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/15/22 22:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/15/22 22:11	1
Chloroethane	ND		1.0	0.32	ug/L			09/15/22 22:11	1
Chloroform	0.47	J	1.0	0.34	ug/L			09/15/22 22:11	1
Chloromethane	ND		1.0	0.35	ug/L			09/15/22 22:11	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/15/22 22:11	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/15/22 22:11	1
Cyclohexane	ND		1.0	0.18	ug/L			09/15/22 22:11	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/15/22 22:11	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/15/22 22:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/15/22 22:11	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/15/22 22:11	1
Methyl acetate	ND	*	2.5	1.3	ug/L			09/15/22 22:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/15/22 22:11	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/15/22 22:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/15/22 22:11	1
Styrene	ND		1.0	0.73	ug/L			09/15/22 22:11	1
Tetrachloroethene	15		1.0	0.36	ug/L			09/15/22 22:11	1
Toluene	ND		1.0	0.51	ug/L			09/15/22 22:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/15/22 22:11	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/15/22 22:11	1
Trichloroethene	ND		1.0	0.46	ug/L			09/15/22 22:11	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/15/22 22:11	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/15/22 22:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/15/22 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		09/15/22 22:11	1
4-Bromofluorobenzene (Surr)	105		73 - 120		09/15/22 22:11	1
Dibromofluoromethane (Surr)	108		75 - 123		09/15/22 22:11	1
Toluene-d8 (Surr)	89		80 - 120		09/15/22 22:11	1

Client Sample ID: TB-20220914-01

Lab Sample ID: 480-201659-10

Date Collected: 09/14/22 08:00

Matrix: Water

Date Received: 09/15/22 10:00

Method: 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			09/15/22 22:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/15/22 22:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/15/22 22:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/15/22 22:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/15/22 22:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/15/22 22:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/15/22 22:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/15/22 22:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/15/22 22:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/15/22 22:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/15/22 22:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/15/22 22:35	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: TB-20220914-01

Lab Sample ID: 480-201659-10

Date Collected: 09/14/22 08:00

Matrix: Water

Date Received: 09/15/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/15/22 22:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/15/22 22:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/15/22 22:35	1
2-Hexanone	ND		5.0	1.2	ug/L			09/15/22 22:35	1
4-Methyl-2-pentanone (MIBK)	ND	*-	5.0	2.1	ug/L			09/15/22 22:35	1
Acetone	ND		10	3.0	ug/L			09/15/22 22:35	1
Benzene	ND		1.0	0.41	ug/L			09/15/22 22:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/15/22 22:35	1
Bromoform	ND		1.0	0.26	ug/L			09/15/22 22:35	1
Bromomethane	ND		1.0	0.69	ug/L			09/15/22 22:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/15/22 22:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/15/22 22:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/15/22 22:35	1
Chloroethane	ND		1.0	0.32	ug/L			09/15/22 22:35	1
Chloroform	ND		1.0	0.34	ug/L			09/15/22 22:35	1
Chloromethane	ND		1.0	0.35	ug/L			09/15/22 22:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/15/22 22:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/15/22 22:35	1
Cyclohexane	ND		1.0	0.18	ug/L			09/15/22 22:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/15/22 22:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/15/22 22:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/15/22 22:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/15/22 22:35	1
Methyl acetate	ND	*-	2.5	1.3	ug/L			09/15/22 22:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/15/22 22:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/15/22 22:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/15/22 22:35	1
Styrene	ND		1.0	0.73	ug/L			09/15/22 22:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/15/22 22:35	1
Toluene	ND		1.0	0.51	ug/L			09/15/22 22:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/15/22 22:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/15/22 22:35	1
Trichloroethene	ND		1.0	0.46	ug/L			09/15/22 22:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/15/22 22:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/15/22 22:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/15/22 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		09/15/22 22:35	1
4-Bromofluorobenzene (Surr)	103		73 - 120		09/15/22 22:35	1
Dibromofluoromethane (Surr)	100		75 - 123		09/15/22 22:35	1
Toluene-d8 (Surr)	90		80 - 120		09/15/22 22:35	1

Client Sample ID: FB-20220914-01

Lab Sample ID: 480-201659-11

Date Collected: 09/14/22 08:00

Matrix: Water

Date Received: 09/15/22 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: FB-20220914-01

Lab Sample ID: 480-201659-11

Date Collected: 09/14/22 08:00

Matrix: Water

Date Received: 09/15/22 10:00

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Perfluorononanoic acid (PFNA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Perfluorooctanoic acid (PFOA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.8	ng/L		09/19/22 11:42	09/19/22 20:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	97		50 - 150				09/19/22 11:42	09/19/22 20:46	1
13C2 PFDoA	87		50 - 150				09/19/22 11:42	09/19/22 20:46	1
13C2 PFHxA	97		50 - 150				09/19/22 11:42	09/19/22 20:46	1
13C2 PFTeDA	75		50 - 150				09/19/22 11:42	09/19/22 20:46	1
13C2 PFUnA	95		50 - 150				09/19/22 11:42	09/19/22 20:46	1
13C3 PFBS	93		50 - 150				09/19/22 11:42	09/19/22 20:46	1
13C4 PFHpA	99		50 - 150				09/19/22 11:42	09/19/22 20:46	1
13C4 PFOA	102		50 - 150				09/19/22 11:42	09/19/22 20:46	1
13C4 PFOS	97		50 - 150				09/19/22 11:42	09/19/22 20:46	1
13C5 PFNA	98		50 - 150				09/19/22 11:42	09/19/22 20:46	1
18O2 PFHxS	93		50 - 150				09/19/22 11:42	09/19/22 20:46	1

Surrogate Summary

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

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)
480-201659-1	ERM-13-20220912-01	104	104	104	87
480-201659-2	ERM-12-20220912-01	97	103	110	93
480-201659-3	MW-104-5-10-20220913-01	96	99	100	89
480-201659-4	MW-103-8-13-20220913-01	106	103	109	89
480-201659-5	MW-102-20220913-01	95	104	103	92
480-201659-6	DUP-001-20220913-01	97	100	104	90
480-201659-7	ERM-115-20220913-01	93	99	101	90
480-201659-8	ERM-8-20220914-01	96	102	102	89
480-201659-9	ERM-16-20220914-01	105	105	108	89
480-201659-10	TB-20220914-01	100	103	100	90
LCS 480-641595/6	Lab Control Sample	92	101	100	89
LCS 480-641762/6	Lab Control Sample	99	102	104	91
MB 480-641595/8	Method Blank	94	102	101	89
MB 480-641762/9	Method Blank	93	99	100	88

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: Groundwater Analysis

Job ID: 480-201659-1

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)	PFDaA (50-150)	PFHxA (50-150)	PFTDA (50-150)	PFUnA (50-150)	C3PFBS (50-150)	C4PFHA (50-150)	PFOA (50-150)
480-201659-3	MW-104-5-10-20220913-01	95	89	99	86	89	97	98	100
480-201659-4	MW-103-8-13-20220913-01	96	89	93	86	92	95	100	100
480-201659-5	MW-102-20220913-01	94	89	96	88	96	98	102	98
480-201659-6	DUP-001-20220913-01	89	93	95	90	92	90	95	97
480-201659-7	ERM-115-20220913-01	87	82	94	74	81	90	93	96
480-201659-11	FB-20220914-01	97	87	97	75	95	93	99	102
LCS 200-183671/2-A	Lab Control Sample	99	86	100	87	94	96	99	101
LCSD 200-183671/3-A	Lab Control Sample Dup	93	85	96	80	89	91	94	100
MB 200-183671/1-A	Method Blank	98	92	101	94	99	91	101	103

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOS (50-150)	PFNA (50-150)	PFHxS (50-150)
480-201659-3	MW-104-5-10-20220913-01	92	93	94
480-201659-4	MW-103-8-13-20220913-01	91	94	91
480-201659-5	MW-102-20220913-01	93	95	92
480-201659-6	DUP-001-20220913-01	91	94	90
480-201659-7	ERM-115-20220913-01	81	90	85
480-201659-11	FB-20220914-01	97	98	93
LCS 200-183671/2-A	Lab Control Sample	97	98	98
LCSD 200-183671/3-A	Lab Control Sample Dup	95	96	88
MB 200-183671/1-A	Method Blank	94	100	96

Surrogate Legend

PFDA = 13C2 PFDA
PFDaA = 13C2 PFDaA
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

QC Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

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

Lab Sample ID: MB 480-641595/8

Matrix: Water

Analysis Batch: 641595

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			09/15/22 17:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/15/22 17:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/15/22 17:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/15/22 17:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/15/22 17:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/15/22 17:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/15/22 17:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/15/22 17:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/15/22 17:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/15/22 17:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/15/22 17:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/15/22 17:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/15/22 17:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/15/22 17:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/15/22 17:09	1
2-Hexanone	ND		5.0	1.2	ug/L			09/15/22 17:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/15/22 17:09	1
Acetone	ND		10	3.0	ug/L			09/15/22 17:09	1
Benzene	ND		1.0	0.41	ug/L			09/15/22 17:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/15/22 17:09	1
Bromoform	ND		1.0	0.26	ug/L			09/15/22 17:09	1
Bromomethane	ND		1.0	0.69	ug/L			09/15/22 17:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/15/22 17:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/15/22 17:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/15/22 17:09	1
Chloroethane	ND		1.0	0.32	ug/L			09/15/22 17:09	1
Chloroform	ND		1.0	0.34	ug/L			09/15/22 17:09	1
Chloromethane	ND		1.0	0.35	ug/L			09/15/22 17:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/15/22 17:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/15/22 17:09	1
Cyclohexane	ND		1.0	0.18	ug/L			09/15/22 17:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/15/22 17:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/15/22 17:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/15/22 17:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/15/22 17:09	1
Methyl acetate	ND		2.5	1.3	ug/L			09/15/22 17:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/15/22 17:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/15/22 17:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/15/22 17:09	1
Styrene	ND		1.0	0.73	ug/L			09/15/22 17:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/15/22 17:09	1
Toluene	ND		1.0	0.51	ug/L			09/15/22 17:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/15/22 17:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/15/22 17:09	1
Trichloroethene	ND		1.0	0.46	ug/L			09/15/22 17:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/15/22 17:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/15/22 17:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/15/22 17:09	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

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

Lab Sample ID: MB 480-641595/8

Matrix: Water

Analysis Batch: 641595

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		09/15/22 17:09	1
4-Bromofluorobenzene (Surr)	102		73 - 120		09/15/22 17:09	1
Dibromofluoromethane (Surr)	101		75 - 123		09/15/22 17:09	1
Toluene-d8 (Surr)	89		80 - 120		09/15/22 17:09	1

Lab Sample ID: LCS 480-641595/6

Matrix: Water

Analysis Batch: 641595

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	26.4		ug/L		106	73 - 126
1,1,1,2,2-Tetrachloroethane	25.0	21.2		ug/L		85	76 - 120
1,1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.8		ug/L		83	61 - 148
1,1,2-Trichloroethane	25.0	21.7		ug/L		87	76 - 122
1,1-Dichloroethane	25.0	22.3		ug/L		89	77 - 120
1,1-Dichloroethene	25.0	23.0		ug/L		92	66 - 127
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	56 - 134
1,2-Dibromoethane	25.0	24.3		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	24.1		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	23.6		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	22.5		ug/L		90	76 - 120
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 120
2-Butanone (MEK)	125	99.3		ug/L		79	57 - 140
2-Hexanone	125	94.5		ug/L		76	65 - 127
4-Methyl-2-pentanone (MIBK)	125	87.1	*-	ug/L		70	71 - 125
Acetone	125	125		ug/L		100	56 - 142
Benzene	25.0	23.2		ug/L		93	71 - 124
Bromodichloromethane	25.0	26.9		ug/L		108	80 - 122
Bromoform	25.0	31.3		ug/L		125	61 - 132
Bromomethane	25.0	28.1		ug/L		113	55 - 144
Carbon disulfide	25.0	24.9		ug/L		100	59 - 134
Carbon tetrachloride	25.0	27.5		ug/L		110	72 - 134
Chlorobenzene	25.0	23.3		ug/L		93	80 - 120
Chloroethane	25.0	24.8		ug/L		99	69 - 136
Chloroform	25.0	24.2		ug/L		97	73 - 127
Chloromethane	25.0	20.7		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	23.6		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	27.4		ug/L		109	74 - 124
Cyclohexane	25.0	18.8		ug/L		75	59 - 135
Dibromochloromethane	25.0	30.2		ug/L		121	75 - 125
Dichlorodifluoromethane	25.0	26.4		ug/L		105	59 - 135
Ethylbenzene	25.0	23.7		ug/L		95	77 - 123
Isopropylbenzene	25.0	25.4		ug/L		102	77 - 122
Methyl acetate	50.0	34.3	*-	ug/L		69	74 - 133
Methyl tert-butyl ether	25.0	24.8		ug/L		99	77 - 120
Methylcyclohexane	25.0	22.2		ug/L		89	68 - 134

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QC Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

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

Lab Sample ID: LCS 480-641595/6

Matrix: Water

Analysis Batch: 641595

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	24.6		ug/L		98	75 - 124
Styrene	25.0	25.4		ug/L		101	80 - 120
Tetrachloroethene	25.0	24.2		ug/L		97	74 - 122
Toluene	25.0	22.8		ug/L		91	80 - 122
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	73 - 127
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	80 - 120
Trichloroethene	25.0	23.8		ug/L		95	74 - 123
Trichlorofluoromethane	25.0	29.7		ug/L		119	62 - 150
Vinyl chloride	25.0	23.8		ug/L		95	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	89		80 - 120

Lab Sample ID: MB 480-641762/9

Matrix: Water

Analysis Batch: 641762

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			09/16/22 17:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/16/22 17:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/16/22 17:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/16/22 17:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/16/22 17:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/16/22 17:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/16/22 17:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/16/22 17:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/16/22 17:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/16/22 17:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/16/22 17:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/16/22 17:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/16/22 17:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/16/22 17:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/16/22 17:43	1
2-Hexanone	ND		5.0	1.2	ug/L			09/16/22 17:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/16/22 17:43	1
Acetone	ND		10	3.0	ug/L			09/16/22 17:43	1
Benzene	ND		1.0	0.41	ug/L			09/16/22 17:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/16/22 17:43	1
Bromoform	ND		1.0	0.26	ug/L			09/16/22 17:43	1
Bromomethane	ND		1.0	0.69	ug/L			09/16/22 17:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/16/22 17:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/16/22 17:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/16/22 17:43	1
Chloroethane	ND		1.0	0.32	ug/L			09/16/22 17:43	1
Chloroform	ND		1.0	0.34	ug/L			09/16/22 17:43	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

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

Lab Sample ID: MB 480-641762/9

Matrix: Water

Analysis Batch: 641762

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			09/16/22 17:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/16/22 17:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/16/22 17:43	1
Cyclohexane	ND		1.0	0.18	ug/L			09/16/22 17:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/16/22 17:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/16/22 17:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/22 17:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/16/22 17:43	1
Methyl acetate	ND		2.5	1.3	ug/L			09/16/22 17:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/16/22 17:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/16/22 17:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/16/22 17:43	1
Styrene	ND		1.0	0.73	ug/L			09/16/22 17:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/16/22 17:43	1
Toluene	ND		1.0	0.51	ug/L			09/16/22 17:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/16/22 17:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/16/22 17:43	1
Trichloroethene	ND		1.0	0.46	ug/L			09/16/22 17:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/16/22 17:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/16/22 17:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/22 17:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					09/16/22 17:43	1
4-Bromofluorobenzene (Surr)	99		73 - 120					09/16/22 17:43	1
Dibromofluoromethane (Surr)	100		75 - 123					09/16/22 17:43	1
Toluene-d8 (Surr)	88		80 - 120					09/16/22 17:43	1

Lab Sample ID: LCS 480-641762/6

Matrix: Water

Analysis Batch: 641762

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	28.8		ug/L		115	73 - 126
1,1,2,2-Tetrachloroethane	25.0	19.6		ug/L		79	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.3		ug/L		89	61 - 148
1,1,2-Trichloroethane	25.0	21.3		ug/L		85	76 - 122
1,1-Dichloroethane	25.0	23.2		ug/L		93	77 - 120
1,1-Dichloroethene	25.0	23.0		ug/L		92	66 - 127
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		97	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.8		ug/L		103	56 - 134
1,2-Dibromoethane	25.0	24.1		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	25.9		ug/L		104	75 - 120
1,2-Dichloropropane	25.0	21.9		ug/L		88	76 - 120
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	77 - 120
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 120
2-Butanone (MEK)	125	90.0		ug/L		72	57 - 140

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QC Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

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

Lab Sample ID: LCS 480-641762/6

Matrix: Water

Analysis Batch: 641762

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	87.6		ug/L		70	65 - 127
4-Methyl-2-pentanone (MIBK)	125	81.9	*-	ug/L		66	71 - 125
Acetone	125	117		ug/L		94	56 - 142
Benzene	25.0	23.3		ug/L		93	71 - 124
Bromodichloromethane	25.0	28.4		ug/L		114	80 - 122
Bromoform	25.0	30.3		ug/L		121	61 - 132
Bromomethane	25.0	27.8		ug/L		111	55 - 144
Carbon disulfide	25.0	26.1		ug/L		105	59 - 134
Carbon tetrachloride	25.0	30.7		ug/L		123	72 - 134
Chlorobenzene	25.0	23.4		ug/L		94	80 - 120
Chloroethane	25.0	24.7		ug/L		99	69 - 136
Chloroform	25.0	25.3		ug/L		101	73 - 127
Chloromethane	25.0	19.8		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	27.5		ug/L		110	74 - 124
Cyclohexane	25.0	20.7		ug/L		83	59 - 135
Dibromochloromethane	25.0	31.3		ug/L		125	75 - 125
Dichlorodifluoromethane	25.0	29.0		ug/L		116	59 - 135
Ethylbenzene	25.0	24.0		ug/L		96	77 - 123
Isopropylbenzene	25.0	25.5		ug/L		102	77 - 122
Methyl acetate	50.0	32.2	*-	ug/L		64	74 - 133
Methyl tert-butyl ether	25.0	24.9		ug/L		100	77 - 120
Methylcyclohexane	25.0	23.2		ug/L		93	68 - 134
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124
Styrene	25.0	25.8		ug/L		103	80 - 120
Tetrachloroethene	25.0	25.3		ug/L		101	74 - 122
Toluene	25.0	23.7		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	28.0		ug/L		112	80 - 120
Trichloroethene	25.0	26.0		ug/L		104	74 - 123
Trichlorofluoromethane	25.0	33.1		ug/L		132	62 - 150
Vinyl chloride	25.0	23.4		ug/L		94	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123
Toluene-d8 (Surr)	91		80 - 120

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-183671/1-A

Matrix: Water

Analysis Batch: 183694

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183671

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1
Perfluorodecanoic acid (PFDA)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

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

Lab Sample ID: MB 200-183671/1-A

Matrix: Water

Analysis Batch: 183694

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183671

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1
Perfluorononanoic acid (PFNA)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1
Perfluorooctanoic acid (PFOA)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	2.0	ng/L		09/19/22 11:42	09/19/22 17:30	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	98		50 - 150	09/19/22 11:42	09/19/22 17:30	1
13C2 PFDoA	92		50 - 150	09/19/22 11:42	09/19/22 17:30	1
13C2 PFHxA	101		50 - 150	09/19/22 11:42	09/19/22 17:30	1
13C2 PFTeDA	94		50 - 150	09/19/22 11:42	09/19/22 17:30	1
13C2 PFUnA	99		50 - 150	09/19/22 11:42	09/19/22 17:30	1
13C3 PFBS	91		50 - 150	09/19/22 11:42	09/19/22 17:30	1
13C4 PFHpA	101		50 - 150	09/19/22 11:42	09/19/22 17:30	1
13C4 PFOA	103		50 - 150	09/19/22 11:42	09/19/22 17:30	1
13C4 PFOS	94		50 - 150	09/19/22 11:42	09/19/22 17:30	1
13C5 PFNA	100		50 - 150	09/19/22 11:42	09/19/22 17:30	1
18O2 PFHxS	96		50 - 150	09/19/22 11:42	09/19/22 17:30	1

Lab Sample ID: LCS 200-183671/2-A

Matrix: Water

Analysis Batch: 183694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanesulfonic acid (PFBS)	70.7	74.1		ng/L		105	70 - 130
Perfluorodecanoic acid (PFDA)	80.0	85.5		ng/L		107	70 - 130
Perfluorododecanoic acid (PFDoA)	80.0	85.9		ng/L		107	70 - 130
Perfluoroheptanoic acid (PFHpA)	80.0	81.0		ng/L		101	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	72.8	73.4		ng/L		101	70 - 130
Perfluorohexanoic acid (PFHxA)	80.0	84.3		ng/L		105	70 - 130
Perfluorononanoic acid (PFNA)	80.0	84.8		ng/L		106	70 - 130
Perfluorooctanesulfonic acid (PFOS)	74.2	74.5		ng/L		100	70 - 130
Perfluorooctanoic acid (PFOA)	80.0	85.2		ng/L		106	70 - 130
Perfluorotetradecanoic acid (PFTeA)	80.0	80.1		ng/L		100	70 - 130
Perfluorotridecanoic acid (PFTriA)	80.0	83.7		ng/L		105	70 - 130
Perfluoroundecanoic acid (PFUnA)	80.0	83.7		ng/L		105	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFDA	99		50 - 150
13C2 PFDoA	86		50 - 150

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QC Sample Results

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

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

Lab Sample ID: LCS 200-183671/2-A

Matrix: Water

Analysis Batch: 183694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183671

<i>Isotope Dilution</i>	<i>LCS %Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
13C2 PFHxA	100		50 - 150
13C2 PFTeDA	87		50 - 150
13C2 PFUnA	94		50 - 150
13C3 PFBS	96		50 - 150
13C4 PFHpA	99		50 - 150
13C4 PFOA	101		50 - 150
13C4 PFOS	97		50 - 150
13C5 PFNA	98		50 - 150
18O2 PFHxS	98		50 - 150

Lab Sample ID: LCSD 200-183671/3-A

Matrix: Water

Analysis Batch: 183694

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 183671

<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)	70.7	72.6		ng/L		103	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	80.0	93.3		ng/L		117	70 - 130	9	30
Perfluorododecanoic acid (PFDoA)	80.0	82.8		ng/L		104	70 - 130	4	30
Perfluoroheptanoic acid (PFHpA)	80.0	85.4		ng/L		107	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	72.8	77.6		ng/L		107	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	80.0	84.0		ng/L		105	70 - 130	0	30
Perfluorononanoic acid (PFNA)	80.0	82.7		ng/L		103	70 - 130	2	30
Perfluorooctanesulfonic acid (PFOS)	74.2	74.2		ng/L		100	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	80.0	76.5		ng/L		96	70 - 130	11	30
Perfluorotetradecanoic acid (PFTeA)	80.0	81.5		ng/L		102	70 - 130	2	30
Perfluorotridecanoic acid (PFTriA)	80.0	80.9		ng/L		101	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	80.0	86.3		ng/L		108	70 - 130	3	30

<i>Isotope Dilution</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
13C2 PFDA	93		50 - 150
13C2 PFDoA	85		50 - 150
13C2 PFHxA	96		50 - 150
13C2 PFTeDA	80		50 - 150
13C2 PFUnA	89		50 - 150
13C3 PFBS	91		50 - 150
13C4 PFHpA	94		50 - 150
13C4 PFOA	100		50 - 150
13C4 PFOS	95		50 - 150
13C5 PFNA	96		50 - 150
18O2 PFHxS	88		50 - 150

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QC Association Summary

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

GC/MS VOA

Analysis Batch: 641595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201659-2	ERM-12-20220912-01	Total/NA	Water	8260C	
480-201659-3	MW-104-5-10-20220913-01	Total/NA	Water	8260C	
480-201659-4	MW-103-8-13-20220913-01	Total/NA	Water	8260C	
480-201659-5	MW-102-20220913-01	Total/NA	Water	8260C	
480-201659-8	ERM-8-20220914-01	Total/NA	Water	8260C	
480-201659-9	ERM-16-20220914-01	Total/NA	Water	8260C	
480-201659-10	TB-20220914-01	Total/NA	Water	8260C	
MB 480-641595/8	Method Blank	Total/NA	Water	8260C	
LCS 480-641595/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 641762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201659-1	ERM-13-20220912-01	Total/NA	Water	8260C	
480-201659-6	DUP-001-20220913-01	Total/NA	Water	8260C	
480-201659-7	ERM-115-20220913-01	Total/NA	Water	8260C	
MB 480-641762/9	Method Blank	Total/NA	Water	8260C	
LCS 480-641762/6	Lab Control Sample	Total/NA	Water	8260C	

LCMS

Prep Batch: 183671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201659-3	MW-104-5-10-20220913-01	Total/NA	Water	3535	
480-201659-4	MW-103-8-13-20220913-01	Total/NA	Water	3535	
480-201659-5	MW-102-20220913-01	Total/NA	Water	3535	
480-201659-6	DUP-001-20220913-01	Total/NA	Water	3535	
480-201659-7	ERM-115-20220913-01	Total/NA	Water	3535	
480-201659-11	FB-20220914-01	Total/NA	Water	3535	
MB 200-183671/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-183671/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-183671/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 183694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201659-3	MW-104-5-10-20220913-01	Total/NA	Water	537 (modified)	183671
480-201659-4	MW-103-8-13-20220913-01	Total/NA	Water	537 (modified)	183671
480-201659-5	MW-102-20220913-01	Total/NA	Water	537 (modified)	183671
480-201659-6	DUP-001-20220913-01	Total/NA	Water	537 (modified)	183671
480-201659-7	ERM-115-20220913-01	Total/NA	Water	537 (modified)	183671
480-201659-11	FB-20220914-01	Total/NA	Water	537 (modified)	183671
MB 200-183671/1-A	Method Blank	Total/NA	Water	537 (modified)	183671
LCS 200-183671/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	183671
LCSD 200-183671/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	183671

Lab Chronicle

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-13-20220912-01

Lab Sample ID: 480-201659-1

Date Collected: 09/12/22 16:25

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	641762	ATG	EET BUF	09/16/22 21:32

Client Sample ID: ERM-12-20220912-01

Lab Sample ID: 480-201659-2

Date Collected: 09/12/22 17:35

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	641595	ATG	EET BUF	09/15/22 19:28

Client Sample ID: MW-104-5-10-20220913-01

Lab Sample ID: 480-201659-3

Date Collected: 09/13/22 09:15

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	641595	ATG	EET BUF	09/15/22 19:51
Total/NA	Prep	3535			183671	KFW	EET BUR	09/19/22 11:42
Total/NA	Analysis	537 (modified)		1	183694	ND	EET BUR	09/19/22 20:05

Client Sample ID: MW-103-8-13-20220913-01

Lab Sample ID: 480-201659-4

Date Collected: 09/13/22 10:55

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	641595	ATG	EET BUF	09/15/22 20:15
Total/NA	Prep	3535			183671	KFW	EET BUR	09/19/22 11:42
Total/NA	Analysis	537 (modified)		1	183694	ND	EET BUR	09/19/22 20:13

Client Sample ID: MW-102-20220913-01

Lab Sample ID: 480-201659-5

Date Collected: 09/13/22 13:50

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	641595	ATG	EET BUF	09/15/22 20:38
Total/NA	Prep	3535			183671	KFW	EET BUR	09/19/22 11:42
Total/NA	Analysis	537 (modified)		1	183694	ND	EET BUR	09/19/22 20:21

Client Sample ID: DUP-001-20220913-01

Lab Sample ID: 480-201659-6

Date Collected: 09/13/22 12:00

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	641762	ATG	EET BUF	09/16/22 21:55
Total/NA	Prep	3535			183671	KFW	EET BUR	09/19/22 11:42
Total/NA	Analysis	537 (modified)		1	183694	ND	EET BUR	09/19/22 20:30

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Lab Chronicle

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Client Sample ID: ERM-115-20220913-01

Lab Sample ID: 480-201659-7

Date Collected: 09/13/22 16:45

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	641762	ATG	EET BUF	09/16/22 22:18
Total/NA	Prep	3535			183671	KFW	EET BUR	09/19/22 11:42
Total/NA	Analysis	537 (modified)		1	183694	ND	EET BUR	09/19/22 20:38

Client Sample ID: ERM-8-20220914-01

Lab Sample ID: 480-201659-8

Date Collected: 09/14/22 08:30

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	641595	ATG	EET BUF	09/15/22 21:48

Client Sample ID: ERM-16-20220914-01

Lab Sample ID: 480-201659-9

Date Collected: 09/14/22 10:40

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	641595	ATG	EET BUF	09/15/22 22:11

Client Sample ID: TB-20220914-01

Lab Sample ID: 480-201659-10

Date Collected: 09/14/22 08:00

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	641595	ATG	EET BUF	09/15/22 22:35

Client Sample ID: FB-20220914-01

Lab Sample ID: 480-201659-11

Date Collected: 09/14/22 08:00

Matrix: Water

Date Received: 09/15/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			183671	KFW	EET BUR	09/19/22 11:42
Total/NA	Analysis	537 (modified)		1	183694	ND	EET BUR	09/19/22 20:46

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

Accreditation/Certification Summary

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

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	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-22
Illinois	NELAP	200003	09-30-22
Iowa	State	374	03-01-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23
Kentucky (DW)	State	90029	12-31-22
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-22
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-22
Maryland	State	294	03-31-23
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22
Tennessee	State	02970	04-01-23
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	02-10-23
Wisconsin	State	998310390	08-31-23

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	02-25-23
Connecticut	State	PH-0751	09-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-23
Florida	NELAP	E87467	06-30-23
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-23
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00272	10-30-23

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

Eurofins Buffalo

Accreditation/Certification Summary

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Laboratory: Eurofins Burlington (Continued)

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

Authority	Program	Identification Number	Expiration Date
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-22
Wisconsin	State	399133350	08-31-23

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Method Summary

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	EET BUR
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

Sample Summary

Client: ERM-Northeast
Project/Site: Groundwater Analysis

Job ID: 480-201659-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-201659-1	ERM-13-20220912-01	Water	09/12/22 16:25	09/15/22 10:00
480-201659-2	ERM-12-20220912-01	Water	09/12/22 17:35	09/15/22 10:00
480-201659-3	MW-104-5-10-20220913-01	Water	09/13/22 09:15	09/15/22 10:00
480-201659-4	MW-103-8-13-20220913-01	Water	09/13/22 10:55	09/15/22 10:00
480-201659-5	MW-102-20220913-01	Water	09/13/22 13:50	09/15/22 10:00
480-201659-6	DUP-001-20220913-01	Water	09/13/22 12:00	09/15/22 10:00
480-201659-7	ERM-115-20220913-01	Water	09/13/22 16:45	09/15/22 10:00
480-201659-8	ERM-8-20220914-01	Water	09/14/22 08:30	09/15/22 10:00
480-201659-9	ERM-16-20220914-01	Water	09/14/22 10:40	09/15/22 10:00
480-201659-10	TB-20220914-01	Water	09/14/22 08:00	09/15/22 10:00
480-201659-11	FB-20220914-01	Water	09/14/22 08:00	09/15/22 10:00

Chain of Custody Record

Syracuse
#225Environment Testing
America

Client Information		Sampler: <u>Dikshya Khoral</u>		Lab PM: <u>Schove, John R</u>	Carrier Tracking No(s): <u>480-177235-38006.1</u>
Client Contact: <u>Jason Hnako</u>		Phone: <u>315-243-7247</u>		E-Mail: <u>John.Schove@eurofins.com</u>	Page: <u>1 of 2</u>
Company: <u>ERM-Northeast</u>		PWSID: _____		Job #: _____	
Address: <u>One Beacon Street 5th Floor</u>		Analysis Requested			
City: <u>Boston</u>		Due Date Requested: <u>2 weeks</u>			
State, Zip: <u>MA, 02108</u>		TAT Requested (days): <u>2 weeks</u>			
Phone: _____		Compliance Project: <u>Δ Yes Δ No</u>			
PO #: <u>0529121.04</u>		Field Filtered Sample (Yes or No) ☒ <u>Yes</u>			
WO #: <u>0529121</u>		Perform MS/MSD (Yes or No) ☒ <u>Yes</u>			
Project #: <u>48022276</u>		8260C - PFA's, Vermont 12 Analytes ☒ <u>Yes</u>			
SSOW#: _____		8260C - TCL VOCs ☒ <u>Yes</u>			
Site: <u>Berlington, VT</u>		Total Number of Containers: <u>3</u>			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)
ERM-13-20220912-01	09/12/2022	16:25	G	Water	
ERM-12-20220912-01	09/12/2022	17:35	G	Water	
MW-104-5-10-20220913-01	09/13/2022	09:15	G	Water	
MW-103-8-13-20220913-01	09/13/2022	10:55	G	Water	
MW-102-20220913-01	09/13/2022	13:50	G	Water	
DUP-001-20220913-01	09/13/2022	12:00	G	Water	
ERM-11S-20220913-01	09/13/2022	16:45	G	Water	
ERM-8-20220914-01	09/14/2022	8:30	G	Water	
ERM-16-20220914-01	09/14/2022	10:40	G	Water	
TB-20220914-01	09/14/2022	8:00	G	Water	
FB-20220914-01	09/14/2022	8:00	G	Water	
Possible Hazard Identification		Poison B ☒ Unknown ☐ Radiological ☐		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Non-Hazard ☐ Flammable ☐ Skin Irritant ☐		Deliverable Requested: I, II, III, IV, Other (specify) _____		Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <u>Dikshya Khoral</u>		Date/Time: <u>09/14/2022 16:00</u>		Company: <u>ERM</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>09/14/22 10:00</u>		Company: <u>ES-SM</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>09/15/22 10:00</u>		Company: <u>THS</u>	
Custody Seals Intact ☒ Δ Yes Δ No		Custody Seal No: <u>2.8 #1 ICE</u>		Cooler Temperature(s) °C and Other Remarks: _____	

Client Information					
Sampler	Dikshya Kharal	Lab PM	Schove, John R	Carrier Tracking No(s)	COC No 480-177235-38006 1
Phone	315-243-7247	E-Mail	John Schove@et.eurofinsus.com	State of Origin	Page Page 1 of 2
Company	ERM-Northeast	PWSID		Job #	
Analysis Requested					
Due Date Requested.		TAT Requested (days): 2 weeks			
Compliance Project:	Δ Yes Δ No				
PO #	0529121.04				
WO #	0529121				
Project #	48022276				
SSOW#					
Address	One Beacon Street 5th Floor				
City	Boston				
State	MA				
Zip	02108				
Phone					
Email	Jason Hnaiko@erm.com				
Project Name	Enbridge & CT				
Bennington, VT - Groundwater Analysis					
Site	Bennington, VT				
Sample Identification					
Sample ID	ERM-13-20220912-01	Sample Date	09/12/2022	Sample Time	16:25
	ERM-12-20220912-01		09/12/2022		17:35
	MW-104-5-10-20220913-01		09/13/2022		09:15
	MW-103-8-13-20220913-01		09/13/2022		10:55
	MW-102-20220913-01		09/13/2022		13:50
	DUP-001-20220913-01		09/13/2022		12:00
	ERM-115-20220913-01		09/13/2022		16:45
	ERM-8-20220914-01		09/14/2022		8:30
	ERM-16-20220914-01		09/14/2022		10:40
	TB-20220914-01		09/14/2022		8:00
	F B-20220914-01		09/14/2022		8:00
Possible Hazard Identification					
☐ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☒ Unknown	☐ Radiological
Deliverable Requested I, II, III, IV, Other (specify)					
Empty Kit Relinquished by					
Relinquished by	Dikshya Kharal	Date	09/14/2022	Time	16:00
Relinquished by		Date	09/14/22	Time	10:00
Relinquished by		Date	09/14/22	Time	10:00
Custody Seal Intact	A Yes A No	Custody Seal No.			

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

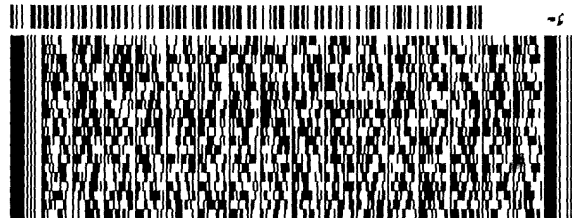
SHIP DATE: 16SEP22
ACTWGT: 44.75 LB
CAD: 848654/CAFE3616
DIMS: 26x15x14 IN

BILL SENDER

TO **SAMPLE MGT.**
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 923-1026

REF: TA BURLINGTON



FedEx
Express



577C1/ECBC/432A

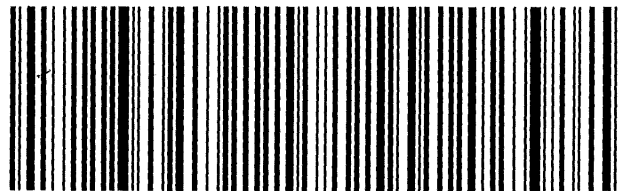
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TRK# 5754 0126 4186
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV



Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-201659-1

Login Number: 201659

List Number: 1

Creator: Sabuda, Brendan D

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	2.8 #1 ICE
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	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-201659-1

Login Number: 201659

List Number: 2

Creator: Khudaier, Zahraa

List Source: Eurofins Burlington

List Creation: 09/17/22 12:24 PM

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	1963545
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	2.9°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?	True	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	