



**NHDES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095**



**November 2022 Groundwater Monitoring Results
Rye Municipal Landfill
Breakfast Hill Road
Rye, NH 03870
NHDES Site #: 198705029
Project Type: LAND/UNLN
Project Number: 0000225**

**Prepared For:
Town of Rye
10 Central Road
Rye, NH 03870
Phone Number (603) 964-5523
RP Contact Name: Matt Scruton
RP Contact Email: mscruton@town.rye.nh.us**

**Prepared By:
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Date of Report: January 18, 2023

Groundwater Monitoring Report Cover Sheet

Site Name: Rye Municipal Landfill, Breakfast Hill Road

Town: Rye

Permit #: GWP-198705029-R-006

Type of Submittal (Check all that apply)

- Periodic Summary Report (*year*):
- Data Submittal (*month and year per Condition #7 of Permit*): November 2022

Check each box where the answer to any of the following questions is "YES"

Sampling Results

- During the most recent monitoring event, were any new compounds detected at any sampling point?

Well/Compound: MW-6A/1,4-dioxane

- Are there any detections of contamination in drinking water that is untreated prior to use?

Well/Compound: 296 Lafayette Road/ PFBA/PFPeA/PFBS/PFHxA/PFHpA

- Do compounds detected exceed AGQS?

- Was free product detected for the first time in any monitoring point?

- Surface Water (*visible sheen*)
- Groundwater (*1/8" or greater thickness*)

Location/Thickness:

Contaminant Trends

- Do sampling results show an increasing concentration trend in any source area monitoring well?

Well/Compound:

- Do sampling results indicate an AGQS violation in any of the GMZ boundary wells?

Well/Compound:

Recommendations

- Does the report include any recommendations requiring DES action? (*Do not check this box if the only recommendation is to continue with existing permit conditions.*)

This form is to be completed for groundwater monitoring data submittals and periodic summary reports submitted to the New Hampshire Department of Environmental Services Waste Management Division.

Cover Sheet for Groundwater Monitoring Reports Template - Revised January 2011



January 18, 2023

Groundwater Permits Coordinator
New Hampshire Department of Environmental Services
29 Hazen Drive, P.O. Box 95
Concord, New Hampshire 03302-0095

**RE: November 2022 Groundwater Results - GWP-198705029-R-006
Rye Municipal Landfill, Breakfast Hill Road
CMA #527**

Dear Coordinator:

Please find enclosed the groundwater monitoring results from the November 2022 water quality sampling event at the Rye Municipal Landfill on Breakfast Hill Road. The sampling was conducted on November 18, 2022, in accordance with the above referenced Groundwater Management Permit for the landfill. Sampling and analyses were conducted by Eastern Analytical Inc. (EAI) of Concord, NH. Analyses of per- and polyfluoroalkyl substances (PFAS) were conducted by Vista Analytical of El Dorado, CA.

Inorganic indicators (including pH, specific conductance, chloride, nitrate, TKN, iron and manganese) and static water level were measured at wells MW-1A, MW-4A, MW-6A, MW-7B and MW-10. Groundwater results from all wells are consistent with previous sampling events.

Manganese concentrations detected exceeded the ambient groundwater quality standard (AGQS) of 0.3 mg/L at wells MW-4A (8.4 mg/L), MW-6A (2.7 mg/L), MW-7B (1.9 mg/L) and MW-10 (2.5 mg/L). These concentrations remain within historically detected ranges.

Specific conductance and chloride decreased at MW-4A and MW-6A from 2021, but large variations occur periodically at these locations. Iron was detected at all wells except MW-1A. TKN and nitrate continue to be detected intermittently at all wells except MW-7B.

Sampling of 1,4-dioxane at a detection limit of 0.2 ug/L was conducted at the five wells on site and two private water supply wells (296 Lafayette Road and 6 Random Road) and was below detection at all locations except MW-6A, where it exceeded the AGQS of 0.32 ug/L at a concentration of 1.4 ug/L.

Annual sampling of per- and polyfluoroalkyl substances (PFAS) was conducted at MW-1A, MW-4A, MW-6A, MW-10 and the two private water supply wells. The November 2022 results for the four PFAS compounds with AGQS are summarized below:

Well Location	Perfluorohexane sulfonate (PFHxS)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane-sulfonic acid (PFOS)
AGQS	18	12	11	15
MW-1A	<2.03	2.95	<2.03	2.74
MW-4A	<2.06	7.93	<2.06	13.1
MW-6A	6.12	43.6	<1.98	8.75
MW-10	4.84	15.8	<2.08	5.76
296 Lafayette Rd	<2.04	6.09	<2.04	<2.04
6 Random Road	<1.97	<1.97	<1.97	<1.97

Bold numbers indicate detections. Shaded values are AGQS exceedances.

PFAS AGQS exceedances include PFOA at MW-6A and MW-10 and PFOS at MW-4A as shown in the preceding table. There were other unregulated PFAS detected at all locations except 6 Random Road. We note that PFOA was detected at a low concentration of 6.09 ng/L at the water supply well at 296 Lafayette Road, below the AGQS of 12 ng/L. There were other unregulated PFAS detected at 296 Lafayette Road. All PFAS were below detection at 6 Random Road. Transmittal of the results to the water supply well owners was under separate cover and is attached.

We have attached the laboratory data and groundwater summary data tables for the past five years of sampling.

Very sincerely yours,

CMA ENGINEERS, INC.



Jodie Bray Strickland, P.E.

Senior Project Engineer

ATTACHMENTS

- Water Quality Summary Tables 2018-2022
- Laboratory Data November 2022
- Water supply well results notifications

Water Quality Summary Tables
2018-2022

Breakfast Hill Landfill
Town of Rye, New Hampshire
Table 1 - Groundwater Table Elevations
Groundwater Management Permit # GWP-198705029-R-006

Well Number	Date	Elevation	Depth to Water	Water Table
MW-1A		97.00		
	05/01/18		13.98	83.02
	11/21/18		13.67	83.33
	11/08/19		15.37	81.63
	11/04/20		16.89	80.11
	11/29/21		14.58	82.42
	11/18/22		14.90	82.10
MW-4A		88.50		
	05/01/18		16.88	71.62
	11/21/18		16.06	72.44
	11/08/19		17.90	70.60
	11/04/20		18.94	69.56
	11/29/21		17.76	70.74
	11/18/22		17.67	70.83
MW-6A		101.30		
	05/24/17		31.33	69.97
	11/20/17		38.45	62.85
	05/01/18		31.87	69.43
	11/21/18		30.98	70.32
	11/08/19		37.64	63.66
	11/04/20		38.70	62.60
	11/29/21		34.36	66.94
	11/18/22		37.84	63.46
	MW-7B		111.58	
05/01/18			40.93	70.65
11/21/18			39.96	71.62
11/08/19			45.08	66.50
11/04/20			45.55	66.03
11/29/21			43.03	68.55
11/18/22			45.30	66.28
MW-10		87.87		
	05/01/18		25.81	62.06
	11/21/18		25.69	62.18
	11/08/19		28.43	59.44
	11/04/20		28.91	58.96
	11/29/21		26.25	61.62
11/18/22		28.42	59.45	

Breakfast Hill Landfill
Town of Rye, New Hampshire
Table 2 - Inorganic Parameter and Metal Sampling
Groundwater Management Permit #GWP-198705029-R-006

Well Number	Date	pH	Specific Conductance	Iron	Manganese	Chloride	Nitrate	TKN
	NH AGQS	NS	NS	NS	0.3 mg/L	NS	10 mg/L	NS
	SMCL/RCMP	NS	NS	0.3 mg/L	0.05 mg/L	250 mg/L	NS	NS
MW-1A								
	05/01/18	5.79	1200	<0.05	0.065	320	<0.5	0.68
	11/21/18	5.74	640	0.5	0.99	130	<0.5	<0.5
	11/08/19	5.87	900	<0.05	<0.005	200	1.1	<0.5
	11/04/20	6.06	870	<0.05	<0.005	180	0.85	<0.5
	11/29/21	5.95	550	<0.05	0.076	120	<0.5	<0.5
	11/18/22	5.95	2200	<0.05	<0.005	550	0.8	1.1
MW-4A								
	05/01/18	5.77	430	4.20	15	57	<0.5	1.5
	11/21/18	5.61	380	4.7	12	47	<0.5	1.7
	11/08/19	5.91	410	6.8	12	51	<0.5	1.5
	11/04/20	5.83	520	2.9	9.9	110	0.81	0.50
	11/29/21	6.02	320	5.0	12	15	<0.5	0.88
	11/18/22	5.89	520	4.6	8.4	79	0.66	0.64
MW-6A								
	05/01/18	6.09	590	<0.05	0.022	11	7.6	0.6
	11/21/18	6.04	1100	13	3.6	110	<0.5	5.7
	11/08/19	6.31	1000	6.3	3.1	110	<0.5	3.1
	11/04/20	6.36	1100	1.4	2.1	110	<0.5	2.3
	11/29/21	6.33	320	<0.05	0.19	16	3.5	<0.5
	11/18/22	6.08	1100	5.9	2.7	120	<0.5	3.9
MW-7B								
	05/01/18	5.99	620	6.6	4.8	11	<0.5	<0.5
	11/21/18	5.97	600	7.7	3.8	14	<0.5	0.64
	11/08/19	6.39	530	3.6	2.9	20	<0.5	<0.5
	11/04/20	6.31	580	5.1	2.9	26	<0.5	<0.5
	11/29/21	6.39	530	4.3	3.1	21	<0.5	<0.5
	11/18/22	6.04	550	0.82	1.9	17	<0.5	<0.5
MW-10								
	05/01/18	6.07	1100	0.77	0.49	160	0.94	0.62
	11/21/18	6.03	1100	0.66	1.1	160	0.56	0.72
	11/08/19	6.35	1100	3.6	2.8	180	<0.5	0.68
	11/04/20	6.28	960	4.0	2.4	200	<0.5	0.57
	11/29/21	6.26	880	5.8	3.1	120	0.56	0.71
	11/18/22	6.07	904	4.1	2.5	160	<0.5	0.70

Notes:

AGQS - Ambient Groundwater Quality Standards

RCMP - Risk Characterization Management Policy, effective 4/01.

SMCL - Secondary Maximum Contaminant Level

"<" indicates that the parameter was not detected above the analytical limit.

Bold figures are detected concentrations and shaded figures are exceedances of applicable limits.

Breakfast Hill Landfill
Town of Rye, New Hampshire
Table 3 - Volatile Organic Compounds
Groundwater Management Permit # GWP-198705029-R-006

Sample ID	Sampling Date	Carbon Disulfide	Chloro-benzene	1,4-Dichloro-benzene	Diethyl Ether	Methylene Chloride	Tetrahydro furan (THF)	1,4-Dioxane
NHAGQS (ug/L)		70	100	75	1400	5	600**	0.32
MW-1A								
	04/95	<2	<1	-	-	<2	-	
	04/96	<2	<1	-	-	<2	-	
	04/97	-	<2	-	-	<2	-	
	04/98	-	<2	-	-	<2	-	
	04/99	-	<2	<1	-	<5	-	
	05/09/00	<5	<2	<1	<5	<5	<10	
	05/23/02	<5	<2	<1	<5	<5	<10	
	04/30/04	<5	<2	<1	<5	<5	<10	
	05/01/08	<5	<2	<1	<5	<5	<10	
	05/01/09	<5	<2	<1	<5	<5	<10	<1
	11/18/22	-	-	-	-	-	-	<0.2
MW-4A								
	04/95	<2	<1	-	-	<2	-	
	04/96	<2	<1	-	-	<2	-	
	04/97	-	<2	-	-	<2	-	
	04/98	-	2	-	-	<2	-	
	04/99	-	<2	<1	-	<5	-	
	05/09/00	<5	<2	<1	<5	<5	<10	
	05/23/02	<5	3	<1	10	<5	<10	
	04/30/04	<5	3	1	<5	<5	<10	
	05/01/08	<5	3	<1	<5	<5	<10	
	05/01/09	<5	<2	<1	<5	<5	<10	<1
	11/18/22	-	-	-	-	-	-	<0.2
MW-6A								
	04/95	<2	<1	-	-	<2	-	
	04/96	<2	<1	-	-	<2	-	
	04/97	-	<2	-	-	<2	-	
	04/98	-	<2	-	-	50	-	
	11/98	-	<2	1	9	<5	-	
	04/99	-	<2	<1	-	<5	-	
	05/09/00	<5	<2	<1	<5	<5	<10	
	05/23/02	<5	<2	2	<5	<5	<10	
	04/30/04	<5	<2	<1	<5	<5	<10	
	05/01/08	<5	<2	<1	<5	<5	<10	
	05/01/09	<5	<2	<1	<5	<5	<10	<1
	1.4 ug/L	-	-	-	-	-	-	1.4
MW-7B								
	11/95	<2	<1	-	-	<2	-	
	04/96	<2	<1	-	-	<2	-	
	04/97	-	<2	-	-	<2	-	
	04/98	-	<2	-	-	<2	-	
	04/99	-	<2	<1	-	<5	-	
	05/09/00	<5	<2	<1	<5	<5	40	
	05/23/02	<5	<2	<1	<5	<5	<10	
	04/30/04	51	<2	<1	<5	<5	<10	
	05/01/08	<5	<2	<1	<5	<5	<10	
	05/01/09	<5	<2	<1	<5	<5	<10	<1
	11/18/22	-	-	-	-	-	-	<0.2
MW-10								
	04/29/10	<5	<2	<1	<5	<5	<10	<1
	11/18/22	-	-	-	-	-	-	<0.2

Rye Municipal Landfill
Table 4-Summary of PFAs Detected in Water Samples
Groundwater Management Permit #GWP-198705029-R-006

All concentrations given in nanograms per liter (ng/L)

DATE	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorobutane sulfonic acid (PFBS)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexane sulfonate (PFHxS)	Perfluorooctanoic acid (PFOA)	Perfluoronanoic acid (PFNA)	Perfluorooctane sulfonic acid (PFOS)	TOTAL (PFOA & PFOS)	6:2 Fluorotelomer sulfonate
CAS #	375-22-4	2706-90-3	375-73-5	307-24-4	375-85-9	355-46-4	335-67-1	375-95-1	1763-23-1	-	-
Current NH AGQS	NS	NS	NS	NS	NS	18 ¹	12 ¹	11 ¹	15 ¹	*	NS
MW-1A											
05/24/17	<7.1	<3.6	<3.6	<3.6	<3.6	<3.6	3.3	<3.6	5.8	9.1	-
11/20/17	6.16	5.43	<4.40	<4.40	<4.40	<4.40	7.02	<4.40	6.00	13.02	-
11/21/18	<4.59	<4.59	<4.59	<4.59	<4.59	<4.59	<4.59	<4.59	<4.59	ND	-
11/08/19	<4.37	<4.37	<4.37	<4.37	<4.37	<4.37	<4.37	<4.37	6.75	*	-
11/04/20	<4.56	<4.56	<4.56	<4.56	<4.56	<4.56	<4.56	<4.56	4.73	*	-
11/29/21	<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	2.26	<1.91	3.24	*	-
11/18/22	2.41	<2.03	<2.03	<2.03	<2.03	<2.03	2.95	<2.03	2.74	*	-
MW-4A											
05/24/17	<6.9	6.1	<3.4	12	6.4	4.9	46	<3.4	36	82	-
11/20/17	<4.61	<4.61	<4.61	<4.61	<4.61	<4.61	19.6	<4.61	26.8	46.4	-
11/21/18	4.86	5.56	<4.38	6.68	<4.38	<4.38	25.4	<4.38	25.9	51.3	-
11/08/19	<4.49	<4.49	<4.49	<4.49	<4.49	<4.49	21.8	<4.49	22.7	*	-
11/04/20	<4.51	<4.51	<4.51	<4.51	<4.51	<4.51	6.05	<4.51	10.2	*	-
11/29/21	4.57	6.50	<1.99	7.39	4.39	2.12	28.0	<1.99	19.0	*	-
11/18/22	2.83	<2.06	<2.06	<2.06	<2.06	<2.06	7.93	<2.06	13.1	*	-
MW-6A											
05/24/17	<7.1	<3.6	<3.6	8.5	13	5.2	67	<3.6	7.0	74.0	-
11/20/17	9.16	12.9	<4.24	20.3	14.0	8.3	66.1	<4.24	6.86	72.96	-
11/21/18	9.44	9.16	<4.33	14.7	9.71	5.76	46.0	<4.33	34.2	80.2	-
11/08/19	10.2	15.5	<4.38	19.7	11.6	6.21	47.1	<4.38	<4.38	*	-
11/04/20	8.4	12.9	<4.54	17.3	10.0	6.92	45.0	<4.54	9.1	*	-
11/29/21	5.8	9.1	2.16	8.9	9.3	4.47	90.1	<1.90	<1.90	*	-
11/18/22	12.0	15.5	2.18	20.1	10.8	6.12	43.6	<1.98	8.75	*	-
MW-7B											
05/24/17	8.4	9.0	<3.6	14	7.3	14	22	<3.6	<3.6	22	-
11/20/17	5.22	9.81	<4.39	11.5	7.1	8.7	17.1	<4.39	<4.39	17.1	-
MW-10											
05/24/17	9.9	8.8	<3.6	14	9.3	7.7	45	<3.6	23	68	-
11/20/17	<4.62	<4.62	<4.62	<4.62	<4.62	<4.62	13.6	<4.62	4.66	18.26	-
11/21/18	7.08	11.6	<4.43	12.9	7.55	7.90	36.8	<4.43	13.3	50.1	-
11/08/19	<4.39	4.55	<4.39	5.73	4.99	6.04	21.2	<4.39	<4.39	*	-
11/04/20	<4.48	<4.48	<4.48	<4.48	<4.48	<4.48	9.3	<4.48	<4.48	*	-
11/29/21	6.24	9.99	1.97	12.5	7.89	7.35	39.9	<1.94	10.3	*	-
11/18/22	4.04	4.44	2.51	4.23	3.25	4.84	15.8	<2.08	5.76	*	-
296 Lafayette Road											
09/19/17	<4.34	<4.34	<4.34	<4.34	<4.34	<4.34	<4.34	<4.34	<4.34	ND	-
11/21/18	<4.32	<4.32	<4.32	<4.32	<4.32	<4.32	5.10	<4.32	<4.32	5.10	-
11/08/19	<4.09	<4.09	<4.09	<4.09	<4.09	<4.09	4.48	<4.09	<4.09	*	-
11/04/20	<4.37	<4.37	<4.37	<4.37	<4.37	<4.37	<4.37	<4.37	<4.37	*	-
11/29/21	1.98	2.66	3.04	2.41	2.04	<1.97	6.54	<1.97	<1.97	*	-
11/18/22	2.04	2.81	3.29	2.16	<2.04	<2.04	6.09	<2.04	<2.04	*	-
6 Random Road											
10/25/16	<9.3	<4.6	<4.6	<4.6	<4.6	18	7.7	<4.6	26	33.7	21
09/19/17	<4.35	<4.35	<4.35	<4.35	<4.35	<4.35	<4.35	<4.35	<4.35	ND	-
11/21/18	<4.18	<4.18	<4.18	<4.18	<4.18	<4.18	<4.18	<4.18	<4.18	ND	-
11/08/19	<4.33	<4.33	<4.33	<4.33	<4.33	<4.33	<4.33	<4.33	<4.33	*	-
11/04/20	<4.50	<4.50	<4.50	<4.50	<4.50	<4.50	<4.50	<4.50	8.91	*	-
04/09/21	<4.05	<4.05	<4.05	<4.05	<4.05	<4.05	<4.05	<4.05	<4.05	*	-
11/29/21	<1.97	<1.97	<1.97	<1.97	<1.97	<1.97	<1.97	<1.97	<1.97	*	-
11/18/22	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	*	-

NOTE: AGQS - Ambient Groundwater Quality Standard NS - No standard * no longer regulated - = not analyzed ND = not detected

Laboratory Data
November 2022



Eastern Analytical, Inc.

professional laboratory and drilling services

Craig Musselman
CMA Engineers, Inc. (Portsmouth)
35 Bow Street
Portsmouth, NH 03801-3819



Laboratory Report for:

Eastern Analytical, Inc. ID: 252667
Client Identification: Breakfast Hill Landfill Rye
Date Received: 11/18/2022

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

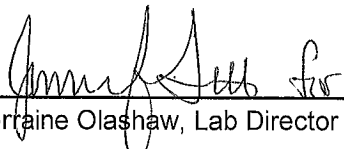
References:

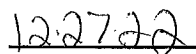
- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director


Date



SAMPLE CONDITIONS PAGE

EAI ID#: 252667

Client: **CMA Engineers, Inc. (Portsmouth)**

Client Designation: **Breakfast Hill Landfill Rye**

Temperature upon receipt (°C): 0.9

Acceptable temperature range (°C): 0-6

Received on ice or cold packs (Yes/No): Y

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
252667.01	MW-1A	11/18/22	11/18/22 12:30	aqueous		Adheres to Sample Acceptance Policy
252667.02	MW-4A	11/18/22	11/18/22 12:37	aqueous		Adheres to Sample Acceptance Policy
252667.03	MW-6A	11/18/22	11/18/22 12:09	aqueous		Adheres to Sample Acceptance Policy
252667.04	MW-7B	11/18/22	11/18/22 11:57	aqueous		Adheres to Sample Acceptance Policy
252667.05	MW-10	11/18/22	11/18/22 11:24	aqueous		Adheres to Sample Acceptance Policy
252667.06	6 Random Rd	11/18/22	11/18/22 13:05	aqueous		Adheres to Sample Acceptance Policy
252667.07	296 Lafayette Rd	11/18/22	11/18/22 13:35	aqueous		Adheres to Sample Acceptance Policy
252667.08	Trip Blank	11/18/22	11/18/22 00:00	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: **252667**

Client: **CMA Engineers, Inc. (Portsmouth)**

Client Designation: **Breakfast Hill Landfill Rye**

Sample ID:	MW-1A	MW-4A	MW-6A	MW-7B
Lab Sample ID:	252667.01	252667.02	252667.03	252667.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/18/22	11/18/22	11/18/22	11/18/22
Date Received:	11/18/22	11/18/22	11/18/22	11/18/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/21/22	11/21/22	11/21/22	11/21/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.2	< 0.2	1.4	< 0.2
4-Bromofluorobenzene (surr)	89 %R	89 %R	92 %R	88 %R
Toluene-d8 (surr)	96 %R	97 %R	99 %R	97 %R



LABORATORY REPORT

EAI ID#: 252667

Client: **CMA Engineers, Inc. (Portsmouth)**

Client Designation: **Breakfast Hill Landfill Rye**

Sample ID:	MW-10	Trip Blank
Lab Sample ID:	252667.05	252667.08
Matrix:	aqueous	aqueous
Date Sampled:	11/18/22	11/18/22
Date Received:	11/18/22	11/18/22
Units:	ug/L	ug/L
Date of Analysis:	11/21/22	11/21/22
Analyst:	MLW	MLW
Method:	8260B SIM	8260B SIM
Dilution Factor:	1	1
1,4-Dioxane	< 0.2	< 0.2
4-Bromofluorobenzene (surr)	88 %R	87 %R
Toluene-d8 (surr)	96 %R	94 %R



QC REPORT

EAI ID#: 252667

Client: **CMA Engineers, Inc. (Portsmouth)**

Batch ID: 638046-46733/A112122DIOX1

Client Designation: **Breakfast Hill Landfill Rye**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.6 (91 %R)	5.2 (104 %R) (13 RPD)	11/21/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	88 %R	88 %R	92 %R	11/21/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	95 %R	97 %R	100 %R	11/21/2022	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 252667

Client: **CMA Engineers, Inc. (Portsmouth)**

Client Designation: **Breakfast Hill Landfill Rye**

Sample ID:	MW-1A	MW-4A	MW-6A	MW-7B					
Lab Sample ID:	252667.01	252667.02	252667.03	252667.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	11/18/22	11/18/22	11/18/22	11/18/22					
Date Received:	11/18/22	11/18/22	11/18/22	11/18/22					
					Units	Analysis		Method	Analyst
Chloride	550	79	120	17	mg/L	11/18/22	17:06	4500CIE-11	ALM
Nitrate-N	0.75	0.66	< 0.5	< 0.5	mg/L	11/18/22	16:46	353.2	ALM
TKN	1.1	0.64	3.9	< 0.5	mg/L	12/07/22	16:53	4500N _{org} C/NH3D	GRS

Sample ID:	MW-10								
Lab Sample ID:	252667.05								
Matrix:	aqueous								
Date Sampled:	11/18/22								
Date Received:	11/18/22								
		Units	Analysis		Method	Analyst			
Chloride	160	mg/L	11/18/22	17:12	4500CIE-11	ALM			
Nitrate-N	< 0.5	mg/L	11/18/22	17:05	353.2	ALM			
TKN	0.70	mg/L	12/07/22	17:04	4500N _{org} C/NH3D	GRS			

MW-7B: The matrix spike duplicate for Chloride associated with this sample exhibited recoveries outside the acceptance criteria. The matrix spike and all other batch QC were in control.



QC REPORT

EAI ID#: 252667

Client: **CMA Engineers, Inc. (Portsmouth)**

Client Designation: **Breakfast Hill Landfill Rye**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Chloride	< 1	26 (104 %R)	26 (103 %R) (1 RPD)	mg/L	11/18/22	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	5.1 (101 %R)	4.9 (99 %R) (3 RPD)	mg/L	11/18/22	90 - 110	20	353.2
TKN	< 0.5	9.8 (98 %R)	10 (102 %R) (4 RPD)	mg/L	12/7/22	90 - 111	20	4500N _{org} C/NH3D-11

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



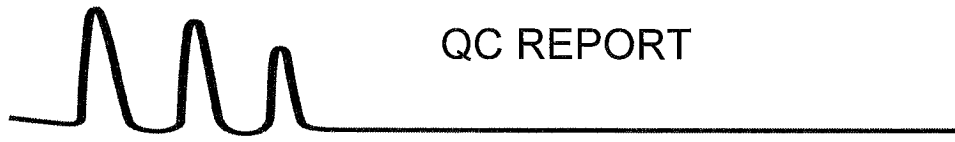
LABORATORY REPORT

EAI ID#: 252667

Client: **CMA Engineers, Inc. (Portsmouth)**
 Client Designation: **Breakfast Hill Landfill Rye**

Sample ID:	MW-1A	MW-4A	MW-6A	MW-7B					
Lab Sample ID:	252667.01	252667.02	252667.03	252667.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	11/18/22	11/18/22	11/18/22	11/18/22	Analytical		Date of		
Date Received:	11/18/22	11/18/22	11/18/22	11/18/22	Matrix	Units	Analysis	Method	Analyst
Iron	< 0.05	4.6	5.9	0.82	AqDis	mg/L	11/22/22	200.8	DS
Manganese	< 0.005	8.4	2.7	1.9	AqDis	mg/L	11/22/22	200.8	DS

Sample ID:	MW-10								
Lab Sample ID:	252667.05								
Matrix:	aqueous								
Date Sampled:	11/18/22				Analytical		Date of		
Date Received:	11/18/22				Matrix	Units	Analysis	Method	Analyst
Iron	4.1				AqDis	mg/L	11/22/22	200.8	DS
Manganese	2.5				AqDis	mg/L	11/22/22	200.8	DS



QC REPORT

EAI ID#: 252667

Client: **CMA Engineers, Inc. (Portsmouth)**

Client Designation: **Breakfast Hill Landfill Rye**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Iron	< 0.05	9.8 (98 %R)		NA mg/L	11/22/22	85 - 115	20	200.8
Manganese	< 0.005	0.19 (97 %R)		NA mg/L	11/22/22	85 - 115	20	200.8

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: **252667**

Client: **CMA Engineers, Inc. (Portsmouth)**

Client Designation: **Breakfast Hill Landfill Rye**

Sample ID:	MW-1A	MW-4A	MW-6A	MW-7B
Lab Sample ID:	252667.01	252667.02	252667.03	252667.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/18/22	11/18/22	11/18/22	11/18/22

						Date of			
						Units	Analysis	Method	Analyst
Static Water Level	14.90	17.67	37.84	45.30		ft	11/18/22	FieldStatic	TNC
Field pH	5.65	5.89	6.08	6.04		SU	11/18/22	SM4500H	TNC
Field Specific Conductance	2200	520	1100	550		uS/cm	11/18/22	SM2510B	TNC

Sample ID: MW-10

Lab Sample ID: 252667.05

Matrix: aqueous

Date Sampled: 11/18/22

						Date of			
						Units	Analysis	Method	Analyst
Static Water Level	28.42					ft	11/18/22	FieldStatic	TNC
Field pH	6.07					SU	11/18/22	SM4500H	TNC
Field Specific Conductance	904					uS/cm	11/18/22	SM2510B	TNC



December 22, 2022

Vista Work Order No. 2211243

Ms. Jennifer Laramie
Eastern Analytical, Inc.
51 Antrim Avenue
Concord, NH 03301

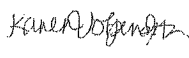
Dear Ms. Laramie,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on November 22, 2022 under your Project Name '252667 NH 104'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at frschwebel@enthalpy.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

 for

Frieda Schwebel
Project Manager



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2211243

Case Narrative

Sample Condition on Receipt:

Six aqueous samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements.

Analytical Notes:

PFAS Isotope Dilution/LC-MSMS Method Compliant with Table B-15 of DoD QSM 5.3 (Aqueous)

Samples "MW-1A", "MW-6A" and "MW-10" contained particulate and were centrifuged prior to extraction.

The samples were extracted and analyzed for a selected list of PFAS using Isotope Dilution and LC-MS/MS compliant with Table B-15 of DoD QSM 5.3. The results for PFHxS, PFOA and PFOS include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limits (RL). The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report



Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2211243-01	MW-1A	18-Nov-22 12:30	22-Nov-22 09:44	Polypropylene, 250mL Polypropylene, 250mL
2211243-02	MW-4A	18-Nov-22 12:37	22-Nov-22 09:44	Polypropylene, 250mL Polypropylene, 250mL
2211243-03	MW-6A	18-Nov-22 12:09	22-Nov-22 09:44	Polypropylene, 250mL Polypropylene, 250mL
2211243-04	MW-10	18-Nov-22 11:24	22-Nov-22 09:44	Polypropylene, 250mL Polypropylene, 250mL
2211243-05	6 Random Rd	18-Nov-22 13:05	22-Nov-22 09:44	Polypropylene, 250mL Polypropylene, 250mL
2211243-06	296 Lafayette Rd	18-Nov-22 13:35	22-Nov-22 09:44	Polypropylene, 250mL Polypropylene, 250mL

ANALYTICAL RESULTS

Sample ID: Method Blank

PFAS Isotope Dilution Table B-15

Client Data		Laboratory Data	
Name: Eastern Analytical, Inc.	Matrix: Aqueous	Lab Sample: B22K258-BLK1	Column: BEH C18
Project: 252667 NH 104			

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.00	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
PFPeA	2706-90-3	ND	2.00	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
PFBS	375-73-5	ND	2.00	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
PFHxA	307-24-4	ND	2.00	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
PFHpA	375-85-9	ND	2.00	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
PFHxS	355-46-4	ND	2.00	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
PFOA	335-67-1	ND	2.00	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
PFNA	375-95-1	ND	2.00	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
PFOs	1763-23-1	ND	2.00	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	63.2	50 - 150	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
13C3-PFPeA	IS	73.0	50 - 150	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
13C3-PFBS	IS	70.6	50 - 150	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
13C2-PFHxA	IS	72.2	50 - 150	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
13C4-PFHxA	IS	75.4	50 - 150	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
13C3-PFHxS	IS	77.8	50 - 150	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
13C2-PFOA	IS	73.4	50 - 150	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
13C5-PFNA	IS	72.8	50 - 150	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1
13C8-PFOs	IS	71.6	50 - 150	B22K258	30-Nov-22	0.250 L	0.250 L	07-Dec-22 17:30	1

RL - Reporting limit Results reported to RL.

When reported, PFHxS, PFOA, PFOs, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR

PFAS Isotope Dilution Table B-15

Client Data		Matrix:		Laboratory Data	
Name:	Eastern Analytical, Inc.			Lab Sample:	B22K258-BS1
Project:	252667 NH 104		Aqueous	Column:	BEH C18

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	43.6	40.0	109	73 - 129		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
PFPeA	2706-90-3	43.6	40.0	109	72 - 129		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
PFBS	375-73-5	44.4	40.4	110	72 - 130		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
PFHxA	307-24-4	40.9	40.0	102	72 - 129		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
PFHpA	375-85-9	41.6	40.0	104	72 - 130		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
PFHxS	355-46-4	40.9	40.0	102	68 - 131		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
PFOA	335-67-1	43.3	40.0	108	71 - 133		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
PFNA	375-95-1	44.6	40.0	112	69 - 130		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
PFOS	1763-23-1	44.4	40.0	111	65 - 140		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
Labeled Standards											
		Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA		IS		57.8	50 - 150		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
13C3-PFPeA		IS		67.5	50 - 150		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
13C3-PFBS		IS		67.7	50 - 150		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
13C2-PFHxA		IS		68.6	50 - 150		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
13C4-PFHpA		IS		71.6	50 - 150		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
13C3-PFHxS		IS		75.5	50 - 150		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
13C2-PFOA		IS		71.2	50 - 150		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
13C5-PFNA		IS		67.1	50 - 150		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1
13C8-PFOS		IS		69.7	50 - 150		B22K258	30-Nov-22	0.250 L	07-Dec-22 17:41	1

Sample ID: MW-1A

PFAS Isotope Dilution Table B-15

Client Data		Laboratory Data	
Name: Eastern Analytical, Inc.	Matrix: Aqueous	Lab Sample: 2211243-01	Column: BEH C18
Project: 252667 NH 104	Date Collected: 18-Nov-22 12:30	Date Received: 22-Nov-22 09:44	
Location: 252667			

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	2.41	2.03		B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
PFPeA	2706-90-3	ND	2.03		B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
PFBS	375-73-5	ND	2.03		B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
PFHxA	307-24-4	ND	2.03		B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
PFHpA	375-85-9	ND	2.03		B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
PFHxS	355-46-4	ND	2.03		B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
PFOA	335-67-1	2.95	2.03		B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
PFNA	375-95-1	ND	2.03		B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
PFOS	1763-23-1	2.74	2.03		B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
Labeled Standards									
	Type	% Recovery		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	52.9			B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
13C3-PFPeA	IS	64.6			B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
13C3-PFBS	IS	66.8			B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
13C2-PFHxA	IS	64.6			B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
13C4-PFHpA	IS	67.8			B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
13C3-PFHxS	IS	73.2			B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
13C2-PFOA	IS	68.1			B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
13C5-PFNA	IS	66.5			B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1
13C8-PFOS	IS	64.6			B22K258	30-Nov-22	0.246 L	07-Dec-22 19:14	1

RL - Reporting limit Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-4A

PFAS Isotope Dilution Table B-15

Client Data		Laboratory Data	
Name: Eastern Analytical, Inc.	Matrix: Aqueous	Lab Sample: 2211243-02	Column: BEH C18
Project: 252667 NH 104	Date Collected: 18-Nov-22 12:37	Date Received: 22-Nov-22 09:44	
Location: 252667			

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	2.83	2.06		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
PFPeA	2706-90-3	ND	2.06		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
PFBS	375-73-5	ND	2.06		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
PFHxA	307-24-4	ND	2.06		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
PFHpA	375-85-9	ND	2.06		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
PFHxS	355-46-4	ND	2.06		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
PFOA	335-67-1	7.93	2.06		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
PFNA	375-95-1	ND	2.06		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
PFOS	1763-23-1	13.1	2.06		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
Labeled Standards									
	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	61.5	50 - 150		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
13C3-PFPeA	IS	67.3	50 - 150		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
13C3-PFBS	IS	60.9	50 - 150		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
13C2-PFHxA	IS	66.8	50 - 150		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
13C4-PFHpA	IS	69.1	50 - 150		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
13C3-PFHxS	IS	73.9	50 - 150		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
13C2-PFOA	IS	70.6	50 - 150		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
13C5-PFNA	IS	68.5	50 - 150		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1
13C8-PFOS	IS	70.9	50 - 150		B22K258	30-Nov-22	0.242 L	07-Dec-22 19:25	1

RL - Reporting Limit Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-6A

PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data					
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2211243-03	Column:	BEH C18		
Project:	252667 NH 104	Date Collected:	18-Nov-22 12:09	Date Received:	22-Nov-22 09:44				
Location:	252667								
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	12.0	1.98		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1
PFPeA	2706-90-3	15.5	1.98		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1
PFBS	375-73-5	2.18	1.98		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1
PFHxA	307-24-4	20.1	1.98		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1
PFHpA	375-85-9	10.8	1.98		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1
PFHxS	355-46-4	6.12	1.98		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1
PFOA	335-67-1	43.6	1.98		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1
PFNA	375-95-1	ND	1.98		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1
PFOS	1763-23-1	8.75	1.98		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1
Labeled Standards									
Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
IS	50.5	50 - 150		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1	
IS	69.0	50 - 150		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1	
IS	69.8	50 - 150		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1	
IS	60.9	50 - 150		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1	
IS	70.3	50 - 150		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1	
IS	72.3	50 - 150		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1	
IS	64.7	50 - 150		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1	
IS	60.3	50 - 150		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1	
IS	62.4	50 - 150		B22K258	30-Nov-22	0.252 L	13-Dec-22 11:04	1	

RL - Reporting Limit Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-10

PFAS Isotope Dilution Table B-15

Client Data		Laboratory Data	
Name: Eastern Analytical, Inc.	Matrix: Aqueous	Lab Sample: 2211243-04	Column: BEH C18
Project: 252667 NH 104	Date Collected: 18-Nov-22 11:24	Date Received: 22-Nov-22 09:44	
Location: 252667			

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	4.04	2.08	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
PFPeA	2706-90-3	4.44	2.08	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
PFBS	375-73-5	2.51	2.08	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
PFHxA	307-24-4	4.23	2.08	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
PFHpA	375-85-9	3.25	2.08	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
PFHxS	355-46-4	4.84	2.08	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
PFOA	335-67-1	15.8	2.08	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
PFNA	375-95-1	N/D	2.08	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
PFOS	1763-23-1	5.76	2.08	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
Labeled Standards									
	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	52.8	50 - 150	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
13C3-PFPeA	IS	69.5	50 - 150	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
13C3-PFBS	IS	68.6	50 - 150	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
13C2-PFHxA	IS	68.9	50 - 150	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
13C4-PFHpA	IS	73.1	50 - 150	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
13C3-PFHxS	IS	77.2	50 - 150	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
13C2-PFOA	IS	72.2	50 - 150	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
13C5-PFNA	IS	69.8	50 - 150	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1
13C8-PFOS	IS	77.5	50 - 150	B22K258	30-Nov-22	0.241 L	0.241 L	07-Dec-22 20:17	1

RL - Reporting limit Results reported to RL.
 When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: 6 Random Rd

PFAS Isotope Dilution Table B-15

Client Data		Laboratory Data	
Name: Eastern Analytical, Inc.	Matrix: Aqueous	Lab Sample: 2211243-05	Column: BEH C18
Project: 252667 NH 104	Date Collected: 18-Nov-22 13:05	Date Received: 22-Nov-22 09:44	
Location: 252667			

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.05		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
PFPeA	2706-90-3	ND	2.05		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
PFBS	375-73-5	ND	2.05		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
PFHxA	307-24-4	ND	2.05		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
PFHpA	375-85-9	ND	2.05		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
PFHxS	355-46-4	ND	2.05		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
PFOA	335-67-1	ND	2.05		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
PFNA	375-95-1	ND	2.05		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
PFOS	1763-23-1	ND	2.05		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	53.3	50 - 150		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
13C3-PFPeA	IS	69.0	50 - 150		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
13C3-PFBS	IS	64.7	50 - 150		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
13C2-PFHxA	IS	69.7	50 - 150		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
13C4-PFHpA	IS	74.3	50 - 150		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
13C3-PFHxS	IS	74.1	50 - 150		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
13C2-PFOA	IS	69.7	50 - 150		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
13C5-PFNA	IS	63.6	50 - 150		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1
13C8-PFOS	IS	68.8	50 - 150		B22K258	30-Nov-22	0.244 L	07-Dec-22 20:27	1

RL - Reporting limit Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

CHAIN-OF-CUSTODY RECORD



EA ID# 252667

Page 1

Sample ID MMW-1A Date Sampled 11/18/2022 Matrix aqueous aParameters 2211243 0.2°C Sample Notes

11/18/2022 | 12:30 | aqueous | Subcontract - Perfluorinated Compounds EPA Method 537/mod (9 Compounds)

11/18/2022 | 12:37 | aqueous | Subcontract - Perfluorinated Compounds EPA Method 537/mod (9 Compounds)

11/18/2022 | 12:09 | aqueous | Subcontract - Perfluorinated Compounds EPA Method 537/mod (9 Compounds)

11/18/2022 | 11:24 | aqueous | Subcontract - Perfluorinated Compounds EPA Method 537/mod (9 Compounds)

EA ID# 252667 Project State: NH

Project ID: 104

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables: A A+ B B+ C MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

PFAS 537 NHDES 9 compound list.

PO #: 58720

EA ID# 252667

Data Deliverable (circle)

Excel NH EMD EQUIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by:

Don Korman 11/21/22 1600 WPS

Relinquished by:

WPS 11/21/22 1644 Kiana Wadsworth

Relinquished by

Date/Time

Received by

Company Vista Analytical Laboratory
 Address 1104 Windfield Way
 Address EI Dorado Hills, CA 95762
 Account #
 Phone # (916) 673-1520

Eastern Analytical, Inc. 51 Antrim Ave Concord, NH 03301

Phone: (603)228-0525 1-800-287-0525

customerservice@easternanalytical.com

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damages arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of the subcontract lab, your officers, agents or employees

CHAIN-OF-CUSTODY RECORD



EAI ID# 252667

Page 2

Sample ID _____ Date Sampled _____ Matrix _____ aParameters _____ Sample Notes _____

6 Random Rd | 11/18/2022 | 13:05 | aqueous | Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)

296 Lafayette Rd | 11/18/2022 | 13:35 | aqueous | Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)

EAI ID# 252667 Project State: NH Project ID: 104

Company: Vista Analytical Laboratory
Address: 1104 Windfield Way
Address: El Dorado Hills, CA 95762
Account #: _____
Phone #: (916) 673-1520

Results Needed: Preferred Date: Standard RUSH Due Date: _____

QC Deliverables: A A+ B B+ C MA MCP

Notes about Project: Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com. PFAS 537 NHDES 9 compound list.

PO #: 58720 EAI ID# 252667

Data Deliverable (circle) Excel NH EMD EQUIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by: [Signature] Date/Time: 11/18/22 1600 hrs
Relinquished by: [Signature] Date/Time: 11/22/22 0944
Received by: [Signature] Date/Time: _____
Relinquished by: _____ Date/Time: _____ Received by: _____

Eastern Analytical, Inc. 51 Anttrim Ave Concord, NH 03301 Phone: (603)228-0525 1-800-287-0525 customerservice@easternanalytical.com
As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damages arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of the subcontract lab, your officers, agents or employees



Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2211243 TAT 16 days

Samples Arrival:	Date/Time: <u>11/22/22 0944</u>	Initials: <u>KW</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N/A</u>
Delivered By:	FedEx <input type="checkbox"/> <u>UPS</u> <input checked="" type="checkbox"/>	On Trac <input type="checkbox"/>	GLS <input type="checkbox"/>
		DHL <input type="checkbox"/>	Hand Delivered <input type="checkbox"/>
Other <input type="checkbox"/>	Preservation: <u>Ice</u> <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Techni Ice <input type="checkbox"/>
		Dry Ice <input type="checkbox"/>	None <input type="checkbox"/>
Temp °C: <u>0.3</u> (uncorrected)	Probe used: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		Thermometer ID: <u>TR-3</u>
Temp °C: <u>0.2</u> (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u>Trk # 17 x40 599 01 9399 0877</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container <u>Vista</u> <input checked="" type="checkbox"/>	Client <u>Retain</u> <input checked="" type="checkbox"/>	Return <input type="checkbox"/>	Dispose <input type="checkbox"/>
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time: <u>11/22/22 11:28</u>	Initials: <u>KW</u>	Location: <u>R-13, WR-2</u>
			Shelf/Rack: <u>A-1, E-3</u>
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2211243

LabNumber CoC Sample ID Sample Alias Sample Date/Time Container Base Matrix Sample Comments

2211243-01	A MW-1A		18-Nov-22 12:30	Polypropylene, 250ml	Aqueous	
2211243-01	B MW-1A		18-Nov-22 12:30	Polypropylene, 250ml	Aqueous	
2211243-02	A MW-4A		18-Nov-22 12:37	Polypropylene, 250ml	Aqueous	
2211243-02	B MW-4A		18-Nov-22 12:37	Polypropylene, 250ml	Aqueous	
2211243-03	A MW-6A		18-Nov-22 12:09	Polypropylene, 250ml	Aqueous	
2211243-03	B MW-6A		18-Nov-22 12:09	Polypropylene, 250ml	Aqueous	
2211243-04	A MW-10		18-Nov-22 11:24	Polypropylene, 250ml	Aqueous	
2211243-04	B MW-10		18-Nov-22 11:24	Polypropylene, 250ml	Aqueous	
2211243-05	A 6 Random Rd		18-Nov-22 13:05	Polypropylene, 250ml	Aqueous	
2211243-05	B 6 Random Rd		18-Nov-22 13:05	Polypropylene, 250ml	Aqueous	
2211243-06	A 296 Lafayette Rd		18-Nov-22 13:35	Polypropylene, 250ml	Aqueous	
2211243-06	B 296 Lafayette Rd		18-Nov-22 13:35	Polypropylene, 250ml	Aqueous	

Checkmarks indicate that information on the CoC reconciled with the sample label. Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Container Type Appropriate for Analysis(es)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Preservation Documented: Na2S2O3 ^{Trizma} NH4CH3CO2 None Other

Verified by/Date: Ms M 22/12

Comments: ^A No. fine listed on sample label.

^B No date listed on sample label.

^C Sample container light rusty tint.

^D Sample ID reconciled by EAS lab (51)

CHAIN-OF-CUSTODY RECORD

eastern analytical
professional laboratory services

252667

aSampleID Date/Time aMatrix Parameters Sample Notes # of containers

MW-1A | 11/18/22 | GW | Field Specific Conductance, Field pH, Chloride, Nitrate, TKN, Dissolved Iron, Manganese, SWL, PFAS 537, 1,4-Dioxane | 7

preservative: HCL ~~HNO₃~~ H₂SO₄ NaOH MEOH Na₂S₂O₃ ~~ICE~~
 MW-4A | 11/18/22 | GW | Field Specific Conductance, Field pH, Chloride, Nitrate, TKN, Dissolved Iron, Manganese, SWL, PFAS 1237 | 7

preservative: HCL ~~HNO₃~~ H₂SO₄ NaOH MEOH Na₂S₂O₃ ~~ICE~~
 MW-6A | 11/18/22 | GW | Field Specific Conductance, Field pH, Chloride, Nitrate, TKN, Dissolved Iron, Manganese, SWL, PFAS 1209 | 7

preservative: HCL ~~HNO₃~~ H₂SO₄ NaOH MEOH Na₂S₂O₃ ~~ICE~~
 MW-7B | 11/18/22 | GW | Field Specific Conductance, Field pH, Chloride, Nitrate, TKN, Dissolved Iron, Manganese, SWL, 1,4-Dioxane | 5

preservative: HCL ~~HNO₃~~ H₂SO₄ NaOH MEOH Na₂S₂O₃ ~~ICE~~
 MW-10 | 11/18/22 | GW | Field Specific Conductance, Field pH, Chloride, Nitrate, TKN, Dissolved Iron, Manganese, SWL, PFAS 1124 | 7

preservative: HCL ~~HNO₃~~ H₂SO₄ NaOH MEOH Na₂S₂O₃ ~~ICE~~
 6 Random Rd | 11/18/22 | DW | PFAS 537 1305 | 2

preservative: HCL HNO₃ H₂SO₄ NaOH MEOH Na₂S₂O₃ ~~ICE~~

aClientID Breakfast Hill Landfill Rye
 nProjectID 104 nYearMonth 2022.11
 Client (Pro Mgr) Craig Musselman

Customer CMA Engineers, Inc. (Portsmouth)
 Address 35 Bow Street
 City Portsmouth NH 03801-3819
 Phone 431-6196
 Fax 431-5376

Results Needed by: Preferred date _____
 Notes about project
 Dissolved metals field filtered, preserved with nitric acid
 PFAS 537 NHDES 9 compound list.

Reporting Options
 HC NO FAX EDD Disk
 Fax No partial FAX EDD email
 PO# _____
 Quote# 1019347
 Temperature 9 °C
 Samples Collected by: Eric FS-TC, EA
 Relinquished by: [Signature] Date/Time: 11/18/22 1600
 Received by: [Signature]

Relinquished by _____ Date/Time _____ Received by _____

CHAIN-OF-CUSTODY RECORD

eastern analytical
professional laboratory services

252667

aSampleID 296 Lafayette Rd Date/Time 11/18/22 aMatrix DW Parameters PFAS 537 Sample Notes 2 # of containers 2

preservative: HCL HNO₃ H₂SO₄ NaOH MEQH Na₂S₂O₃ CE

aClientID Breakfast Hill Landfill Rye
nProjectID 104 nYearMonth 2022.11
Client (Pro Mgr) Craig Musselman

Customer CMA Engineers, Inc. (Portsmouth)

Address 35 Bow Street
City Portsmouth NH 03801-3819
Phone 431-6196
Fax 431-5376

Results Needed by: Preferred date _____

Notes about project
Dissolved metals field filtered, preserved with nitric acid
PFAS 537 NHDES 9 compound list.

Reporting Options
 HC NO FAX EDD Disk
 Fax No partial FAX EDD email
Quote# 1019347

PO# _____
Temperature 09 °C
Ice: Y N

Samples Collected by: EA-EA-T-EA
Relinquished by: [Signature] Date/Time 11/18/22 1600
Received by: [Signature]

Relinquished by _____ Date/Time _____ Received by _____

Water supply well results notifications



TOWN OF RYE • OFFICE OF SELECTMEN
10 Central Road
Rye, NH 03870-2522
(603) 964-5523 • Fax (603) 964-1516

January 17, 2023

Mr. Donald Cavallaro
6 Random Road
Rye, NH 03870

RE: Water Supply Well Laboratory Results
CMA #527

Dear Mr. Cavallaro:

On November 18, 2022, your private water supply was sampled and analyzed for the presence of per- and polyfluoroalkyl substances (PFAS) under the groundwater monitoring permit for the closed Rye Municipal Landfill on Breakfast Hill Road. The NH Department of Environmental Services (NHDES) has established ambient groundwater quality standards (AGQS) for four PFAS compounds.

Sampling results indicate that all four regulated compounds were below detection limits in your water supply well.

If you are interested, the NHDES files on the project, including the annual water quality reports are a matter of public record and are readily available electronically through the Department's OneStop program [Remediation Project \(state.nh.us\)](https://www.state.nh.us/remediation). Older hardcopy files may be accessed by requesting a file review through the Public Information and Permitting Office (PIP) at (603) 271-8876.

NHDES has required annual sampling at your residence in November.

If you have any questions, please do not hesitate to call Matt Taylor with NHDES at (603) 271-3116.

Very truly yours,

Matt Scruton
Town Administrator

Enclosures

cc: NHDES OneStop



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10 Central Road
Rye, NH 03870-2522
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January 17, 2023

AF Real Estate Holding LLC
P.O. Box 839
Epping, NH 03042

RE: 296 Lafayette Road Rye, NH Water Supply Well Laboratory Results
CMA #527

To Whom It May Concern:

On November 18, 2022, your private water supply was sampled and analyzed for the presence of per- and polyfluoroalkyl substances (PFAS) under the groundwater monitoring permit for the closed Rye Municipal Landfill on Breakfast Hill Road. The NH Department of Environmental Services (NHDES) has established ambient groundwater quality standards (AGQS) for four PFAS compounds.

Sampling results indicate that three of the four regulated PFAS compounds were not detected in your water supply. One compound, perfluorooctanoic acid (PFOA) was detected at a low concentration in your water supply well in November at a concentration of 6.09 ng/L (parts per trillion). This is below the AGQS for PFOA of 12 ng/L. PFOA has many potential sources.

If you are interested, the NHDES files on the project, including the annual water quality reports are a matter of public record and are readily available electronically through the Department's OneStop program [Remediation Project \(state.nh.us\)](https://www.state.nh.us/remediation). Older hardcopy files may be accessed by requesting a file review through the Public Information and Permitting Office (PIP) at (603) 271-8876.

NHDES has required annual sampling at your property in November.

If you have any questions, please do not hesitate to call Matt Taylor with NHDES at (603) 271- 3116.

Very truly yours,

Matt Scruton
Town Administrator

Enclosures

cc: NHDES OneStop