
Brandon Landfill 31 Corona Street Brandon, Vermont

VT DEC Project# RU97-0128
Solid Waste Facility ID# RU080
KAS Job# 609210052

FALL 2025 SEMI-ANNUAL WATER QUALITY MONITORING REPORT

December 4, 2025

Prepared for:

Town of Brandon
49 Center Street
Brandon, VT 05733



589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495

www.kas-consulting.com

802.383.0486 p
802.383.0490 f

1.0 Introduction

KAS, Inc. (KAS) conducted a semi-annual groundwater quality monitoring event on October 16, 2025 at the closed Brandon Landfill (Site Location Map and Site Map in Appendix A) in accordance with the current Solid Waste Management Facility Certification issued by the Vermont Department of Environmental Conservation (VT DEC).

2.0 Background

The 5-acre facility operated as a landfill from 1940 until its closure in 1992 and currently operates as a transfer station. Post-closure groundwater monitoring has been conducted consistently since 2016, although select wells have not been sampled for various reasons (i.e., dry, inaccessible, etc.). Manganese, arsenic, and lead remain at levels above Vermont Groundwater Enforceable Standard (VGES). Other metals that have infrequently exceeded VGES in the past include cadmium and nickel. Volatile organic compounds (VOCs) have generally remained below VGES, with the exception of naphthalene, which was found to be slightly above VGES in June 2022. In May 2023, as requested by the VT DEC, groundwater monitoring included per- and polyfluoroalkyl substances (PFAS), an emerging group of contaminants, which have been frequently found in landfill leachate. PFAS, at levels above VGES, was found to be limited to MW-2C and MW-5. As such, in July 2024, the VT DEC amended the facility's certification to reduce PFAS monitoring to these two well locations.

PFAS compounds subject to regulation in Vermont include perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), perfluorohexanesulfonic acid (PFHxS), perfluoroheptanoic acid (PFHpA), and perfluorononanoic acid (PFNA). The VGES for PFAS is 20 nanograms per liter (ng/L) for the sum of the five regulated PFAS. There are numerous other PFAS compounds that are not regulated in Vermont, some of which are considered replacements for PFAS that have been historically phased out of production and use.

Groundwater is presumed to flow in a south-southwesterly direction, towards Otter Creek, based on the topography of the area and based on the data collected to date. The current monitoring well network consists of four (4) wells: MW-1 (upgradient), MW-3 (cross-gradient), and MW-2C and MW-5 (both of which are downgradient).

3.0 Groundwater Sampling & Results

3.1 Field measurements

At the time of sample collection, groundwater was field analyzed for temperature, pH, and specific conductance using a properly calibrated YSI® meter. The depth to groundwater was gauged using a Geotech™ water level indicator. Field measurement data is tabulated in Appendix B.

3.2 Groundwater Sampling

A groundwater sample was collected from all monitoring wells (MW-1, MW-2C, MW-3, and MW-5) on October 16, 2025. Low-flow groundwater purging and sampling techniques were used at MW-2C and MW-5. At MW-1 and MW-3, the sample was collected via a disposable bailer as usual due to the depth of groundwater exceeding the capacity of the peristaltic pump (e.g., >30 feet below



top of casing). The groundwater samples were analyzed for:

- Total metals for arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, sodium, and zinc via EPA Method 6010C/6020B;
- Chemical oxygen demand (COD) via Method 410.4;
- Chloride via Method SM 4500-C1-E-2011;
- VOCs via EPA Method 8260C; and,
- PFAS via isotope dilution Method 533 (isotope dilution).

MW-1 was not analyzed for VOCs and COD due to a technician mishap with the glass vials during transportation. This lack of data is not considered significant, as groundwater at MW-1 has exhibited non-detectable levels of VOCs and stable COD levels during previous sampling events.

3.3 Laboratory Results

Total arsenic was reported at 0.0191 mg/L in MW-2C and 0.372 mg/L in MW-3, both of which exceed the VGES of 0.010 mg/L. Total manganese ranged from 0.39 mg/L (MW-2C) to 28 mg/L (MW-3) and exceeds VGES (0.3 mg/L) at all sample locations. Total lead was reported at 0.294 mg/L in MW-1 and 0.783 mg/L in MW-3, both of which exceed the VGES of 0.015 mg/L. Sodium, for which there is no applicable VGES, ranged from 33 mg/L (MW-3) to 160 mg/L (MW-2C). Iron, for which there is also no applicable VGES, ranged from 1.6 mg/L (MW-5) to 870 mg/L (MW-3). The other metals were either non-detect or at levels below VGES.

Chloride ranged from 53 mg/L to 260 mg/L, the highest concentration being at MW-2C.

COD ranged from non-detect to 120 mg/L, the highest concentration being at MW-3.

No VOCs were detected above laboratory method detection limits in the samples collected, except for select VOCs at MW-2C and at levels below VGES.

Total regulated PFAS was reported at 8.5 ng/L (MW-5) and 134 ng/L (MW-2C), with levels at MW-2C above the VGES of 20 ng/L.

Current and historical analytical data are provided in tables and graphs in Appendix B. A copy of the laboratory reports is provided in Appendix C.

3.4 Quality Assurance/Quality Control

Quality assurance and quality control (QA/QC) samples included a duplicate sample that was analyzed for VOCs, metals, chloride, and COD. The results of the laboratory analysis of the duplicate sample were analyzed using a relative percent difference (RPD) analysis. The RPD is defined as 100 times the difference in reported concentration between the sample and duplicate, divided by the mean of the two samples. A small RPD indicates good correlation between sample and duplicate, with 30% being the EPA Region 1 upper guideline value. For all parameters, the absolute RPD values ranged between 0.0 and 8.7%, which indicates good correlation/precision.

A QA/QC sample also included a trip blank for VOC analysis. No VOCs were detected in the trip blank, which indicates that potential contamination from transit, sample bottles, or laboratory conditions was not a concern.

For PFAS analysis, a QA/QC sample included an equipment rinsate blank (ERB). PFAS compound 6:2 Fluorotelomersulfonic acid (6:2FTS A) was detected in the ERB at 2.9 ng/L, which indicates that there was cross contamination of PFAS from the sampler, equipment, field conditions, and/or laboratory conditions. Given that 6:2 FTS A is not a regulated PFAS and was not detected in either of the samples, this detection is not of significant concern. The PFAS sampling protocol has been reviewed by the KAS technician with an emphasis on equipment decontamination and prohibited items during sampling.

4.0 Trends

For field measurement data, the groundwater elevations were the lowest since October 2021 in all monitoring wells. pH levels appear to be exhibiting a slightly increasing trend overall in MW-1 and MW-3, while pH levels in MW-2C and MW-5 remain fairly stable. The groundwater temperature continues to fluctuate within their respective historical ranges. Specific conductivity was found to be within respective historical ranges since peak measurements at all monitoring locations in May 2025.

Total arsenic continues to exceed VGES at MW-2C and MW-3 and exceeded VGES for the first time in MW-1. At MW-2C, arsenic levels have decreased from historical peaks and are appearing to stabilize. At MW-3, arsenic levels increased to a historical high since the last peak in October 2024. It is likely that the turbidity in the samples at MW-1 and MW-3 is artificially biasing metal concentrations high. This is because high levels of soil/sediment, which can be produced during purging/sampling with a bailer, can result in the inclusion of otherwise immobile particles (e.g., metals bound to soil/sediment). As such, when water levels are lower (typically in the fall), sediment in the water column is more easily disturbed, which results in higher levels of turbidity/metals in the sample. Typically, issues related to sampling induced turbidity can be mitigated by using low-flow purging and sampling methods. However, such sampling methods are not feasible at MW-1 and MW-3 due to the depth of water (>30 feet exceed the capacity of a peristaltic pump) and due to the very low water column, which ranges from approximately 1.5 – 9.36 feet (insufficient for a bladder pump).

Total manganese continues to exceed VGES at all sample locations. Manganese levels appear to be stable at MW-2C and MW-5. At MW-3, manganese concentrations continue to fluctuate and are attributed to fluctuations in turbidity (as discussed above). At MW-1, manganese appears to be exhibiting an increasing trend since October 2023. The reason for this apparent increase is unknown; however, it may be attributed to the increase in turbidity during sampling events.

In general, sodium, chloride, and COD appear to have become more stable with levels remaining within the range of historical fluctuations. The exception is MW-1 and MW-3 where the sodium concentrations remained slightly higher than the previous maximums.

PFAS levels continue to be high at MW-2C but remain within the historical range of fluctuations. At MW-5, PFAS levels remain below VGES and are exhibiting a decreasing trend overall.

Based on non-detect to low levels of VOCs, which are limited to MW-2C, VOCs no longer appear to be a notable contaminant of concern.

Trends/graphs are provided in Appendix B.

5.0 Drinking Water Sampling

At this time, it is unknown if PFAS has impacted the deeper aquifer. In general, the surrounding residential area is served by municipal water. As shown on the Site Map (Appendix A), there are no private water supply wells downgradient from the landfill in the nearby vicinity. The nearest cross-gradient supply well is approximately 0.16 miles to the west at 806 Pearl Street (shown as WRN# 51 on the Site Map). Based on the distances and locations, the risk of PFAS contamination in the supply wells is considered low at this time. On November 22, 2023, the VT DEC requested that the Town sample the drinking water at this residence to fully rule out the risk. Due to the property owner denying access to the Town, a drinking water sample at 806 Pearl Street has not been completed to date.

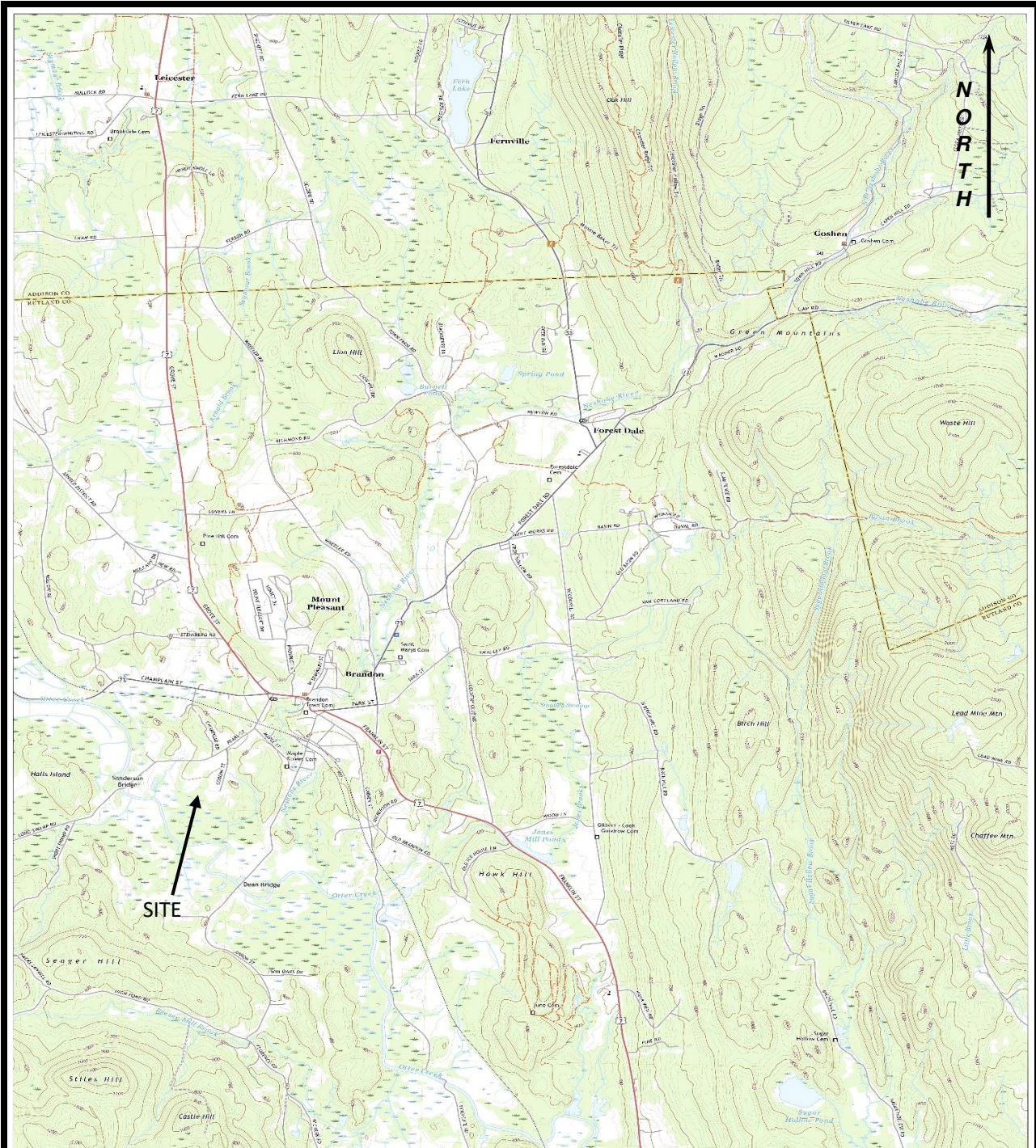
6.0 Recommendation

KAS recommends that groundwater monitoring continue in accordance with Brandon Solid Waste Facility Certification – Monitoring Requirements (7), with the next monitoring event to occur in May 2026. KAS will research if alternative sample collection methods may be available that would reduce the level of turbidity in the samples collected from MW-1 and MW-3.



APPENDIX A

Site Location Map and Site Map



KAS Job Number 609210052
 Source: USGS



589 Avenue D, Suite 10
 PO Box 787
 Williston, VT 05495
 www.kas-consulting.com
 802 383.0486 p
 802 383.0490 f

Brandon Town Landfill 31 Corona Street, Brandon, Vermont

Site Location Map
 USGS Mapping

Date: 04/27/22	Drawing No. 0	Scale NTS	By: ML
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LEGEND

- Private Wells**
- GPS Located
 - Screen Digitized
 - E911 Address Matched
 - Welldriller/Clarion
 - Unknown Location Method
 - Incorrectly Located
- Public Water Sources**

Markups by KAS

- - Approx. location of monitoring well
- - Inactive monitoring well

NOTES

Map created using ANR GIS mapping technology.

1: 6,916

September 13, 2022





APPENDIX B

Data Summaries

Brandon Closed Landfill
 Sampling Date: October 16, 2025

PARAMETER	Monitoring Well ID:	MW-1	MW-2C	MW-3	MW-5	VGES	PAL
VOCs (ug/L)							
1,4-dichlorobenzene		NS	2.4	<1.0	<1.0	75	38
Diethyl Ether		NS	18.0	<5.0	<5.0	-	-
Benzene		NS	2.3	<0.5	<0.5	5	0.5
Chlorobenzene		NS	6.4	<1.0	<1.0	100	50
t-Butanol		NS	<20.0	<20.0	<20.0	-	-
Toluene		NS	<1.0	<1.0	<1.0	1,000	500
Total Metals (mg/L)							
Arsenic		0.187	0.0191	0.372	0.0010	0.010	0.001
Cadmium		<0.020	<0.0020	<0.020	<0.0020	0.005	0.001
Chromium		<0.50	<0.0050	<0.50	<0.0050	0.100	0.050
Copper		<2.0	<0.020	<2.0	<0.020	1.300	0.650
Iron		560	23	870	1.6	-	-
Lead		0.294	<0.0010	0.783	<0.0010	0.015	0.002
Manganese		21	0.39	28	0.71	0.300	0.150
Mercury		<0.0020	<0.0002	<0.0020	<0.0002	0.002	0.0005
Nickel		<0.50	0.0104	0.711	<0.0050	0.100	0.050
Sodium		44	160	33	36	-	-
Zinc		<2.0	<0.020	2.1	<0.020	-	-
Other Analytes (mg/L)							
Chloride		73	260	53	63	-	-
COD		-	44	120	<10	-	-
PFAS (ng/L)							
Perfluorohexanesulfonic acid (PFHxS)		-	17	-	2.3	-	-
Perfluoroheptanoic acid (PFHpA)		-	20	-	<1.9	-	-
Perfluorooctanoic acid (PFOA)		-	60	-	2.8	-	-
Perfluorooctanesulfonic acid (PFOS)		-	37	-	3.4	-	-
Perfluorononanoic acid (PFNA)		-	<2.1	-	<1.9	-	-
Total Regulated PFAS		-	134	-	8.5	20	2
Total Non-Regulated PFAS		-	76	-	4.0	-	-
Field Measurements (units as noted)							
pH (std units)		6.92	6.28	6.90	6.72	-	-
Temperature (deg C)		11.8	11.2	10.0	10.8	-	-
Conductivity (uS)		942	2,042	758	946	-	-
Water Level (feet btoc)		31.56	12.84	34.31	8.57	-	-

Only detected or targeted VOCs are depicted

All values reported in units noted above

"-" = Not Analyzed, No Information or No Applicable Standard

ND = None Detected

<X = None Detected above Detection Limit (X)

VGES = Vermont Groundwater Enforcement Standard (GWPRS 07/06/2019)

PAL = Vermont Preventive Action Level (GWPRS 07/06/2019)

Detections are **bolded**

>VGES

Bold (italic) indicates value exceeds PAL

**Brandon Closed Landfill
MW-1**

PARAMETER	Sample Date:	2012	4/22/2013	10/1/2013	5/29/2014	6/9/2015	10/25/2015	7/24/2016	October 2016	5/7/2017	10/28/2017	5/28/2018	10/20/2018	05/27/2019	10/26/2019	VGES	PAL
VOCs (ug/L)																	
1,1-dichloroethane		-	-	-	-	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<1	<1	70	35
Total Metals (mg/L)																	
Arsenic	Well	Well	Well	Well	Well	Well	Well	Well	Well	0.001	<0.0010	0.0016	<0.0010	<0.0010	<0.0010	0.010	0.001
Cadmium	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.005	0.001
Chromium										<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.100	0.050
Copper										<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	1.300	0.650
Iron										0.79	0.51	3.0	0.62	0.091	0.26	-	-
Lead										<0.001	<0.0010	<0.0021	<0.0010	<0.0010	<0.0010	0.015	0.002
Manganese										0.18	0.14	0.79	0.21	0.034	0.028	0.300	0.150
Mercury										<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002	0.0005
Nickel										<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.100	0.050
Sodium										40	40	38	42	38	38	-	-
Zinc										0.046	0.170	0.025	0.025	<0.020	<0.020	-	-
Other Analytes (mg/L)																	
Chloride										74	72	77	82	86	83	-	-
COD										21	24	14	12	<10	39	-	-
Field Measurements (units as noted)																	
pH (std units)										6.5	6.3	6.6	6.6	6.5	6.7	-	-
Temperature (deg C)										10.7	11.6	11.8	11.9	11.2	12.1	-	-
Conductivity (uS)										1050	1030	1020	1000	1100	1050	-	-
Water Level (feet btoc)										-	-	-	-	-	-	-	-

PARAMETER	Sample Date:	10/14/2021	6/3/2022	10/27/2022	5/22/2023	10/17/2023	5/7/2024	10/3/2024	5/8/2025	10/16/2025						VGES	PAL
VOCs (ug/L)																	
1,1-dichloroethane		-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0						70	35
Total Metals (mg/L)																	
Arsenic	No Sample	No Sample	0.0015	0.0014	<0.0010	0.0038	0.0019	0.0076	0.187							0.010	0.001
Cadmium			<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.020							0.005	0.001
Chromium			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.50							0.100	0.050
Copper	Unable	Unable	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<2.0							1.300	0.650
Iron	To Locate	To Locate	2.4	2.4	2.0	9.0	3.9	17	560							-	-
Lead	Well	Well	<0.0010	<0.0010	<0.0010	0.0042	0.0019	0.0079	0.294							0.015	0.002
Manganese			0.20	0.11	0.11	1.8	1.1	5.6	21							0.300	0.150
Mercury			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0020							0.002	0.0005
Nickel			<0.0050	<0.0050	<0.0050	0.0080	0.0052	0.0173	<0.50							0.100	0.050
Sodium			39	41	33	29	23	44	44							-	-
Zinc			0.024	<0.020	<0.020	<0.020	<0.020	0.050	<2.0							-	-
Other Analytes (mg/L)																	
Chloride			78	77	72	55	60	110	73							-	-
COD			59	74	25	40	37	74	-							-	-
PFAS (ng/L)																	
Perfluorohexanesulfonic acid (PFHxS)			-	<1.8	<1.9	<4.0	-	-	-							-	-
Perfluoroheptanoic acid (PFHpA)			-	<1.8	<1.9	<4.0	-	-	-							-	-
Perfluorooctanoic acid (PFOA)			-	<1.8	<1.9	<4.0	-	-	-							-	-
Perfluorooctanesulfonic acid (PFOS)			-	2.4	<1.9	<4.0	-	-	-							-	-
Perfluorononanoic acid (PFNA)			-	<1.8	<1.9	<4.0	-	-	-							-	-
Total Regulated PFAS			-	2.4	ND	ND	-	-	-							20	2
Total Non-Regulated PFAS			-	ND	ND	ND	-	-	-							-	-
Field Measurements (units as noted)																	
pH (std units)			7.21	7.26	7.29	7.67	7.49	7.14	6.92							-	-
Temperature (deg C)			10.8	14.5	10.8	13.1	12.7	11.4	11.8							-	-
Spec. Conductivity (uS/cm)			1,039	1,008	995	970	538	1,794	942							-	-
Water Level (feet btoc)			31.17	30.67	30.80	30.74	31.34	30.64	31.56							-	-

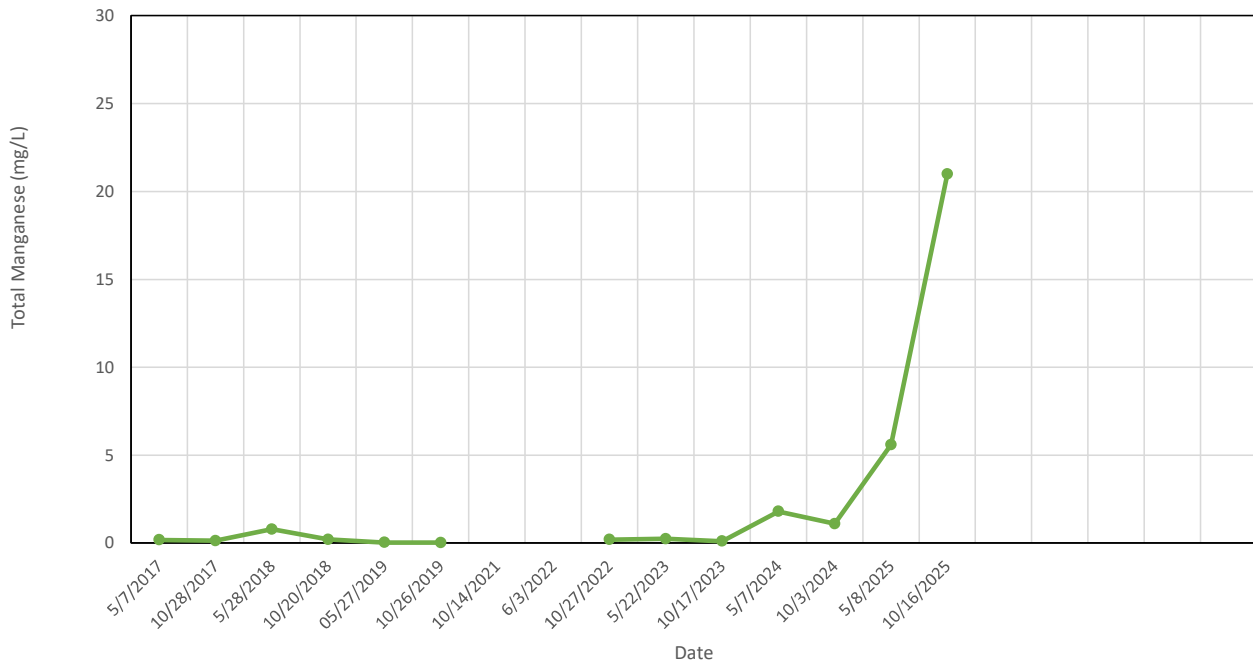
Notes:

Data prior to 2021 collected by others and obtained from 2019 reports prepared by EIV Technical Services
 Data 2021-present collected by KAS, Inc.
 Only detected or targeted VOCs are depicted
 All values reported in units noted above
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 ND = None Detected
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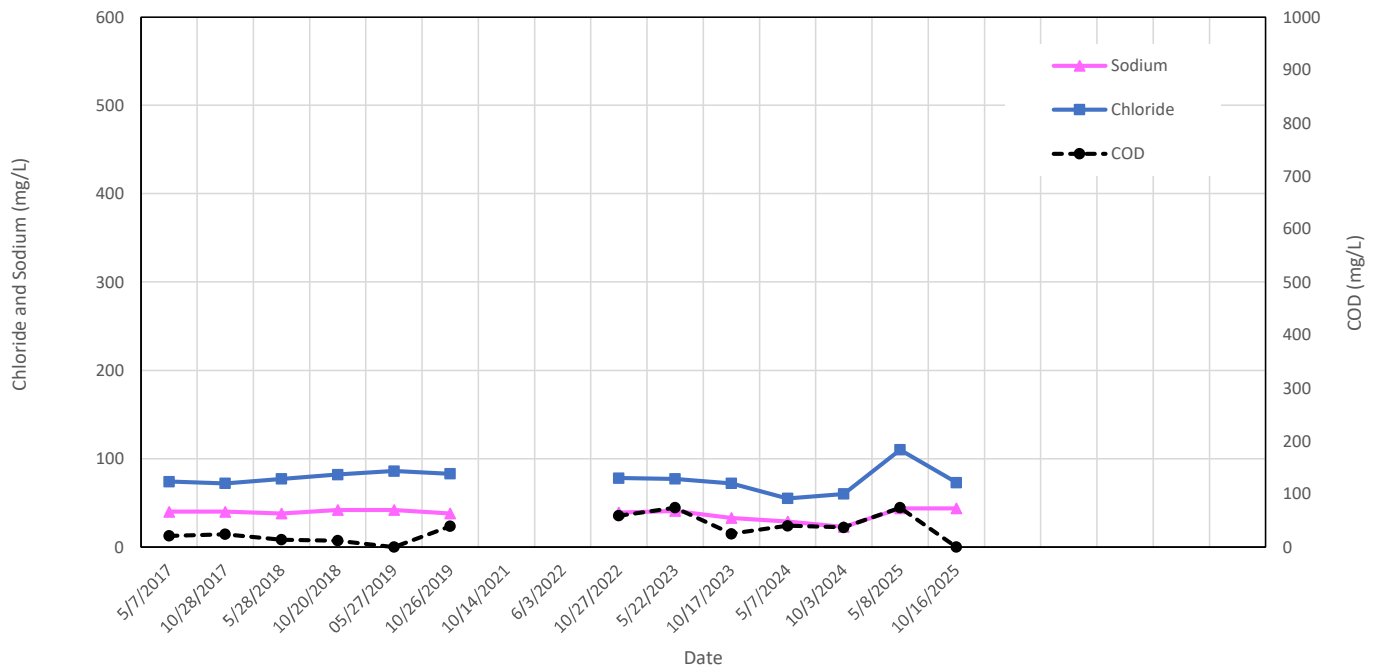
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 Detections are **bolded**
 >VGES
bold (italic) indicates value exceeds PAL

Brandon Landfill
MW-1

Manganese



Brandon Landfill
MW-1



**Brandon Closed Landfill
MW-2C**

PARAMETER	Sample Date:	2012	4/22/2013	10/1/2013	5/29/2014	6/9/2015	10/25/2015	7/24/2016	October 2016	5/7/2017	10/28/2017	5/28/2018	10/20/2018	05/27/2019	10/26/2019	VGES	PAL
VOCS (ug/L)																	
Dichlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.2	-	<5.0	<5.0	<5.0	5.0	1.8	<1	-	-
Vinyl Chloride	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.7	-	<0.5	<0.5	<0.5	<0.5	-	-	2	0.5
1,4-dichlorobenzene	2.3	2.4	2.5	2.3	2.1	2.0	2.6	<1.0	2.4	2.2	1.7	2.7	-	-	-	75	38
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	15.8	<10.0	950	475
Benzene	2.0	2.3	3.3	2.6	2.3	1.9	3.4	<0.5	2.9	2.9	1.3	3.5	1.2	<0.5	<0.5	5	0.5
Chlorobenzene	5.4	5.3	4.8	6.0	5.9	5.0	7.6	<1.0	8.3	7.2	4.1	7.4	4.9	<1.0	<1.0	100	50
Diethyl Ether	-	22.5	36.2	24.0	23.9	19.5	26.3	-	19.4	25.2	17.5	30.5	-	-	-	-	-
Total Metals (mg/L)																	
Arsenic	-	-	-	0.074	0.026	0.025	0.027	Data	0.034	0.0409	0.071	0.0200	0.0213	<0.0010	0.010	0.001	
Cadmium	-	-	-	<0.002	<0.002	<0.002	0.021	Not	0.0027	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.005	0.001
Chromium	-	-	-	0.012	<0.005	<0.005	<0.0050	Available	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.100	0.050
Copper	-	-	-	<0.020	<0.020	<0.020	<0.020	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	1.300	0.650
Iron	-	-	-	56	28	22	33	-	32	33	65	33	28	0.28	-	-	
Lead	-	-	-	0.007	<0.001	<0.001	<0.001	-	<0.001	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	0.015	0.002
Manganese	-	-	-	0.92	0.54	0.45	0.67	-	0.54	0.58	0.57	0.58	0.53	0.077	0.077	0.300	0.150
Mercury	-	-	-	<0.0002	<0.0002	<0.0002	<0.0002	-	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002	0.0005
Nickel	-	-	-	0.022	0.013	0.012	<0.0050	-	0.0088	0.0074	0.0091	0.0095	0.0092	<0.0050	0.100	0.050	
Sodium	-	-	-	170	160	130	230	-	270	230	270	290	240	18	-	-	
Zinc	-	-	-	0.043	<0.02	<0.02	<0.020	-	<0.020	<0.020	0.025	<0.020	<0.020	<0.020	<0.020	-	-
Other Analytes (mg/L)																	
Chloride	-	-	-	203	280	290	380	-	480	440	450	500	420	32	-	-	
COD	-	-	-	57	100	63	62	-	52	67	41	53	62	32	-	-	
Field Measurements (units as noted)																	
pH (std units)	-	-	-	-	-	-	-	6.5	-	6.5	6.4	6.4	6.3	6.6	6.5	-	-
Temperature (deg C)	-	-	-	-	-	-	-	13	-	9.8	10.2	10.2	11.2	10.9	11.3	-	-
Spec. Conductivity (uS/cm)	-	-	-	-	-	-	-	3,010	-	2,800	2,900	2,800	2,300	2,100	2,210	-	-
Water Level (feet btoc)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

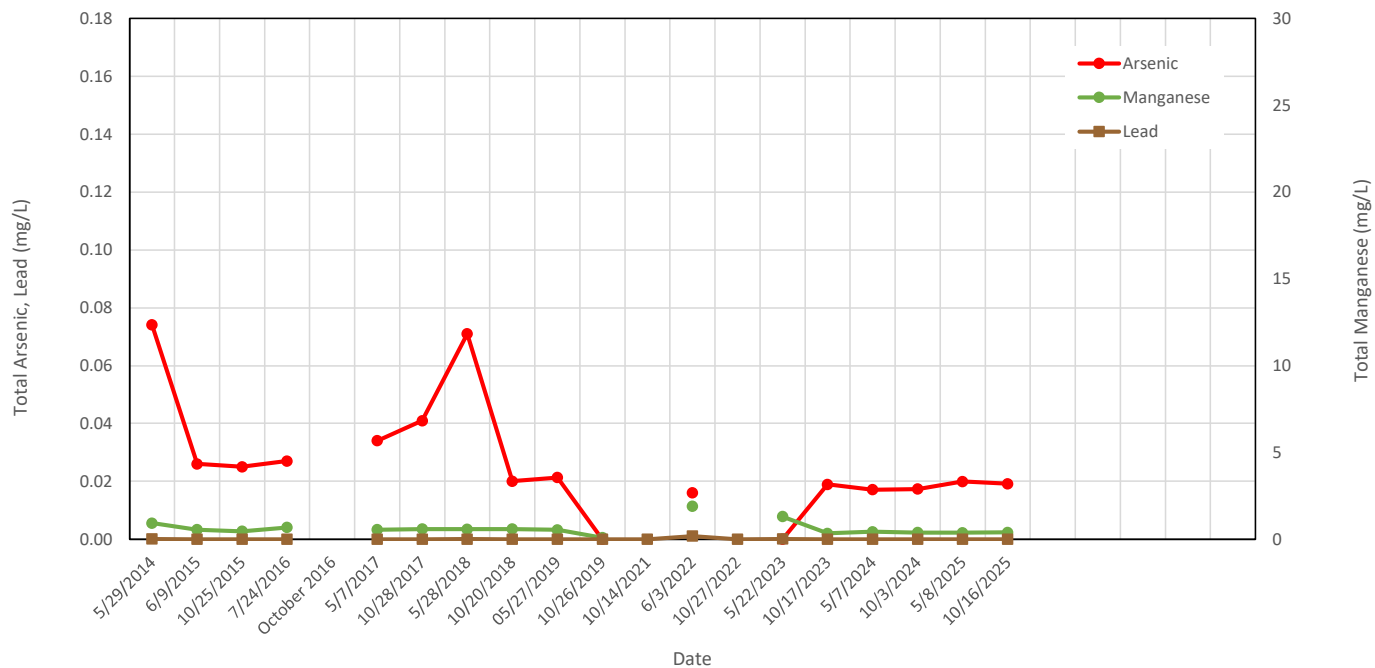
PARAMETER	Sample Date:	10/14/2021	6/3/2022	10/27/2022	5/22/2023	10/17/2023	5/7/2024	10/3/2024	5/8/2025	10/16/2025						VGES	PAL
VOCS (ug/L)																	
1,4-dichlorobenzene	-	<1	-	<1.0	2.7	2.4	2.5	2.3	2.4							75	38
Diethyl Ether	-	21	-	14.6	22.6	19.4	15.1	20.9	18.0							-	-
Acetone	-	67	-	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0							950	475
Methyl-t-butyl ether (MTBE)	-	1.4	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0							11	5
Tetrahydrofuran	-	17	-	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0							-	-
Benzene	-	<1	-	<0.5	2.8	2.3	2.3	2.5	2.3							5	0.5
Chlorobenzene	-	<1	-	<1.0	6.8	5.9	6.5	6.6	6.4							100	50
Naphthalene	-	0.56	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							0.5	0.5
t-Butanol	-	-	-	-	21.9	<20.0	<20.0	<20.0	<20.0							-	-
Toluene	-	-	-	-	-	-	2.3	<1.0	<1.0							1,000	500
Total Metals (mg/L)																	
Arsenic	No	0.016	No	<0.0010	0.0189	0.0171	0.0173	0.0199	0.0191							0.010	0.001
Cadmium	Sample	0.0022	Sample	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020							0.005	0.001
Chromium	-	0.0093	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050							0.100	0.050
Copper	Well	0.084	Well	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020							1.300	0.650
Iron	Dry	22	Dry	2.4	29	29	25	25	23							-	-
Lead	-	0.17	-	0.0036	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010							0.015	0.002
Manganese	-	1.9	-	1.3	0.33	0.42	0.38	0.37	0.39							0.300	0.150
Mercury	-	<0.0001	-	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002							0.002	0.0005
Nickel	-	0.033	-	0.0081	0.0099	0.0093	0.0163	0.0119	0.0104							0.100	0.050
Sodium	-	38	-	28	230	210	200	190	160							-	-
Zinc	-	0.094	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020							-	-
Other Analytes (mg/L)																	
Chloride	-	41	-	24	350	300	290	290	260							-	-
COD	-	900	-	77	53	130	170	47	44							-	-
PFAS (ng/L)																	
Perfluorohexanesulfonic acid (PFHxS)	-	-	-	36	15	17	25	33	17								
Perfluoroheptanoic acid (PFHpA)	-	-	-	18	22	16	25	29	20								
Perfluorooctanoic acid (PFOA)	-	-	-	97	55	58	81	87	60								
Perfluorooctanesulfonic acid (PFOS)	-	-	-	150	43	54	67	76	37								
Perfluorononanoic acid (PFNA)	-	-	-	4.7	<4.1	<4.1	3.7	3.2	<2.1								
Total Regulated PFAS	-	-	-	305.7	135	145	202	228	134							20	2
Total Non-Regulated PFAS	-	-	-	68.7	125	61	98.5	133.1	76							-	-
Field Measurements (units as noted)																	
pH (std units)	-	6.51	-	6.96	6.35	6.59	6.27	6.37	6.28							-	-
Temperature (deg C)	-	18.1	-	11.3	11.4	11.3	12.6	9.8	11.2							-	-
Spec. Conductivity (uS/cm)	-	1,643	-	1,487	2,319	2,227	2,303	3,534	2,042							-	-
Water Level (feet btoc)	-	8.20	-	8.36	9.80	7.17	11.55	7.72	12.84							-	-

Notes:

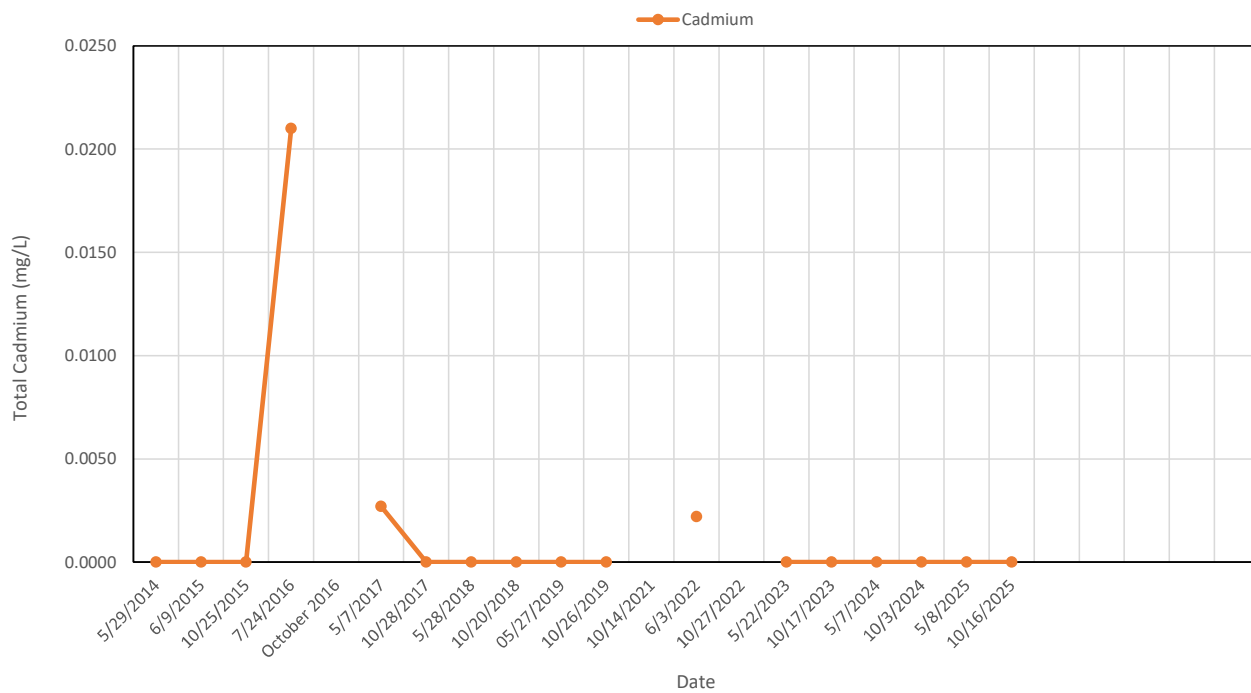
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bold (italic) indicates value exceeds PAL

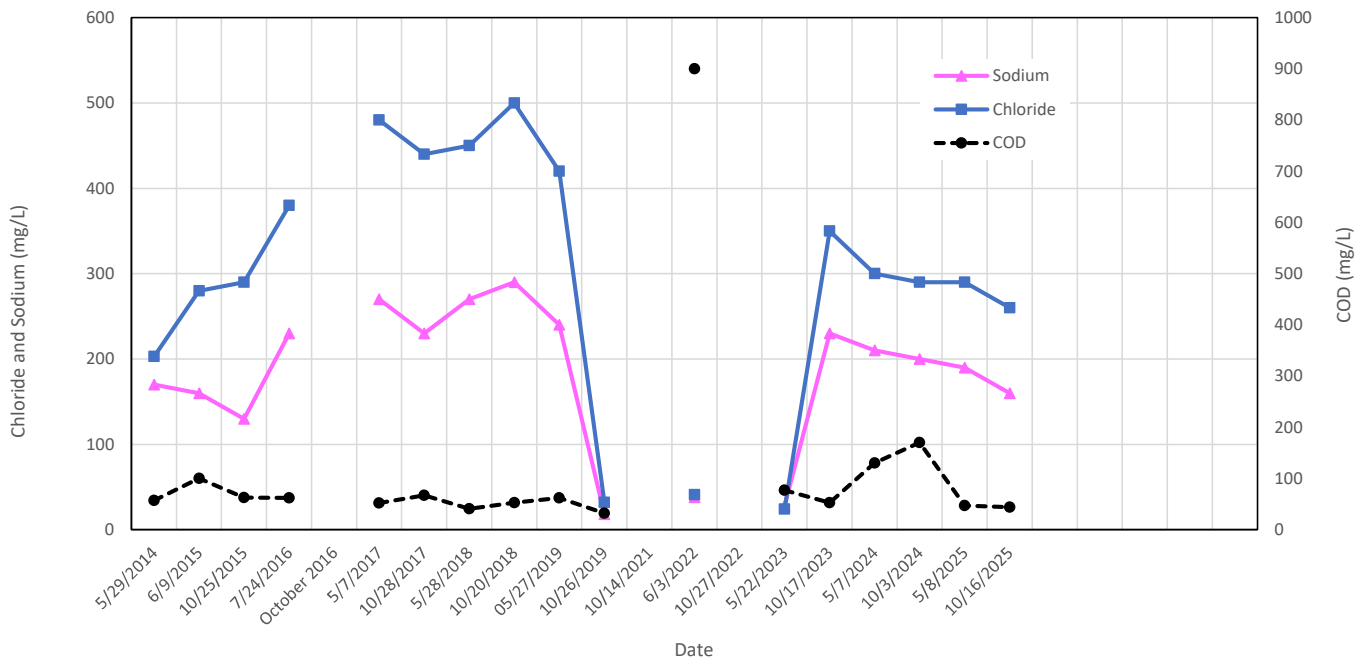
Brandon Landfill MW-2C



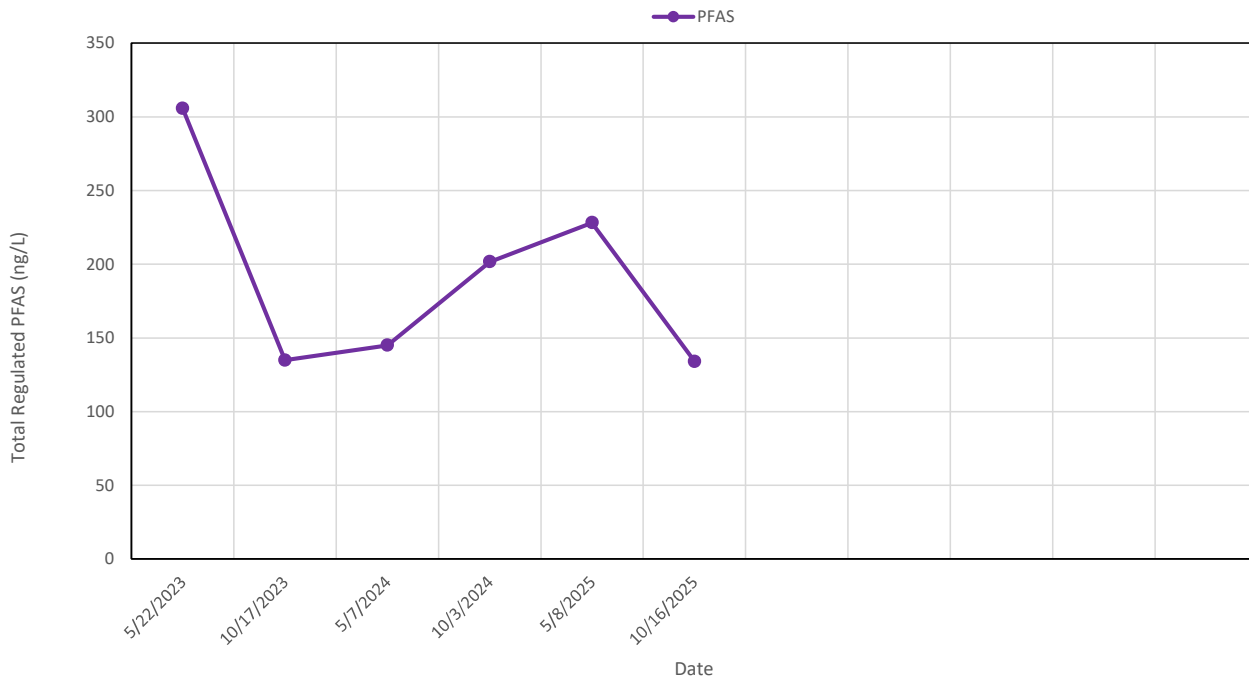
Brandon Landfill MW-2C



Brandon Landfill
MW-2C



Brandon Landfill
MW-2C



Brandon Closed Landfill

MW-3

PARAMETER	Sample Date:	2012	4/22/2013	10/1/2013	5/29/2014	6/9/2015	10/25/2015	7/24/2016	October 2014	5/7/2017	10/28/2017	5/28/2018	10/20/2018	05/27/2019	10/26/2019	VGES	PAL
VOCs (ug/L)																	
1,1-dichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-	-	-	70	35
Total Metals (mg/L)																	
Arsenic		-	-	-	<0.001	0.002	0.009	Well	Well	Well	Well	Well	Well	No Sample	No Sample	0.010	0.001
Cadmium		-	-	-	<0.002	<0.002	<0.002	not	not	not	not	not	not	Sample	Sample	0.005	0.001
Chromium		-	-	-	<0.005	<0.005	<0.0052	sampled	sampled	sampled	sampled	sampled	sampled	-	-	0.100	0.050
Copper		-	-	-	<0.020	<0.020	<0.022	-	-	-	-	-	-	Insufficient	Insufficient	1.300	0.650
Iron		-	-	-	0.41	9.1	29	-	-	-	-	-	-	Amount	Amount	-	-
Lead		-	-	-	<0.001	<0.001	0.008	-	-	-	-	-	-	of Water	of Water	0.015	0.002
Manganese		-	-	-	<0.020	1.1	1.2	-	-	-	-	-	-	in Well	in Well	0.300	0.150
Mercury		-	-	-	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	Column	Column	0.002	0.0005
Nickel		-	-	-	0.005	<0.005	0.016	-	-	-	-	-	-	-	-	0.100	0.050
Sodium		-	-	-	23	20	15	-	-	-	-	-	-	-	-	-	-
Zinc		-	-	-	0.020	<0.020	0.024	-	-	-	-	-	-	-	-	-	-
Other Analytes (mg/L)																	
Chloride		-	-	-	34	31	30	-	-	-	-	-	-	-	-	-	-
COD		-	-	-	11	34	34	-	-	-	-	-	-	-	-	-	-
Field Measurements (units as noted)																	
pH (std units)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (deg C)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (uS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Level (feet btoc)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PARAMETER	Sample Date:	10/14/2021	6/3/2022	10/27/2022	5/22/2023	10/17/2023	5/7/2024	10/3/2024	5/8/2025	10/16/2025						VGES	PAL
VOCs (ug/L)																	
1,1-dichloroethane		<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0						70	35
1,4-dichlorobenzene		-	-	-	-	-	-	-	-	-							
Diethyl Ether		-	-	-	-	-	-	-	-	-							
Acetone		-	-	-	-	-	-	-	-	-							
Methyl-t-butyl ether (MTBE)		-	-	-	-	-	-	-	-	-							
Tetrahydrofuran		-	-	-	-	-	-	-	-	-							
Benzene		-	-	-	-	-	-	-	-	-							
Chlorobenzene		-	-	-	-	-	-	-	-	-							
Naphthalene		-	-	-	-	-	-	-	-	-							
t-Butanol		-	-	-	-	-	-	-	-	-							
Toluene		-	-	-	-	-	-	-	-	-							
Total Metals (mg/L)																	
Arsenic		0.17	0.015	0.030	0.0075	0.0028	0.0147	0.119	0.0105	0.372						0.010	0.001
Cadmium		<0.005	<0.001	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.020						0.005	0.001
Chromium		0.32	0.022	<0.050	0.0110	<0.050	0.0197	<0.50	0.0173	<0.50						0.100	0.050
Copper		0.82	0.062	<0.20	0.021	<0.20	0.043	0.31	<0.040	<2.0						1.300	0.650
Iron		370	47	57	18	7.4	38	260	24	870						-	-
Lead		0.51	0.036	0.0505	0.0151	0.0069	0.0311	0.222	0.0182	0.783						0.015	0.002
Manganese		25	1.5	2.5	0.55	0.21	0.93	8.8	0.63	28						0.300	0.150
Mercury		<0.001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0020						0.002	0.0005
Nickel		0.49	0.036	0.0538	0.0140	0.0055	0.0263	0.199	0.0196	0.711						0.100	0.050
Sodium		26	28	23	26	27	28	26	27	33						-	-
Zinc		1.4	0.11	<0.20	0.042	<0.020	0.082	0.63	0.071	2.1						-	-
Other Analytes (mg/L)																	
Chloride		34	56	98	44	48	42	37	43	53						-	-
COD		<10	<10	220	79	28	84	300	34	120						-	-
PFAS (ng/L)																	
Perfluorohexanesulfonic acid (PFHxS)		-	-	-	<1.8	<4.1	<4.0	-	-	-							
Perfluoroheptanoic acid (PFHpA)		-	-	-	<1.8	<4.1	<4.0	-	-	-							
Perfluorooctanoic acid (PFOA)		-	-	-	<1.8	<4.1	<4.0	-	-	-							
Perfluorooctanesulfonic acid (PFOS)		-	-	-	5.2	<4.1	<4.0	-	-	-							
Perfluorononanoic acid (PFNA)		-	-	-	<1.8	<4.1	<4.0	-	-	-							
Total Regulated PFAS		-	-	-	5.2	ND	ND	-	-	-						20	2
Total Non-Regulated PFAS		-	-	-	ND	ND	ND	-	-	-						-	-
Field Measurements (units as noted)																	
pH (std units)		6.8	7.14	7.27	7.57	7.48	7.83	7.76	7.56	6.90						-	-
Temperature (deg C)		11.9	12.3	10.7	13.0	10.5	12.2	12.8	10.8	10.0						-	-
Spec. Conductivity (uS/cm)		740	773	378.6	715	759	737	539	1275	758						-	-
Water Level (feet btoc)		33.69	30.78	33.60	31.50	32.00	31.17	33.24	31.00	34.31						-	-

Notes:

Data prior to 2021 collected by others and obtained from 2019 reports prepared by EIV Technical Services

Data 2021-present collected by KAS, Inc.

Only detected or targeted VOCs are depicted

All values reported in units noted above

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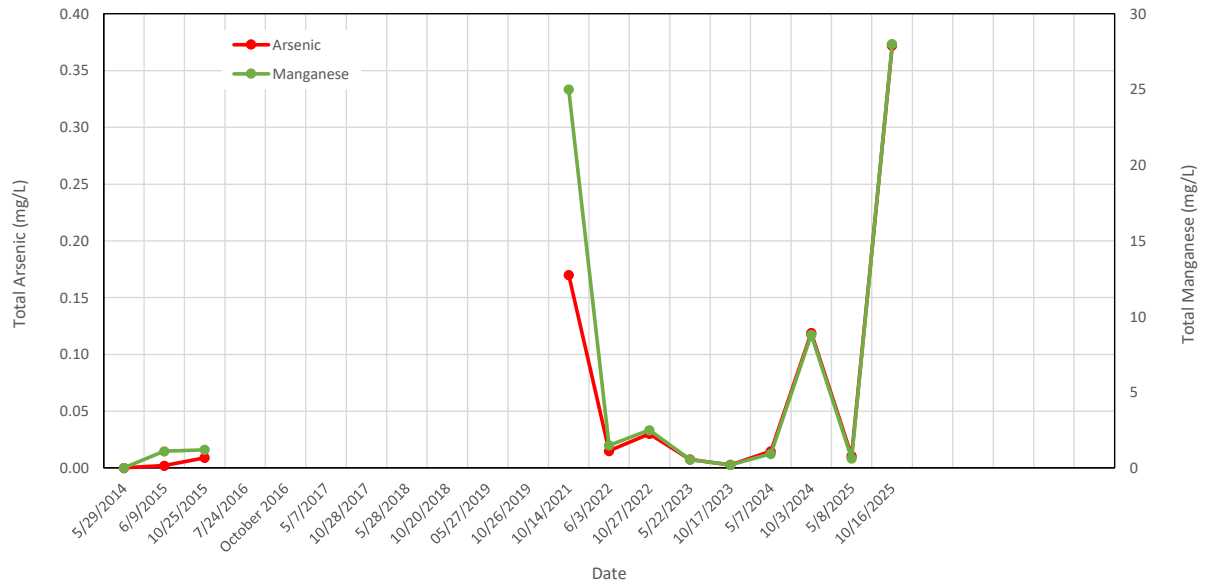
PAL = Vermont Preventive Action Level (GWPRS 07/06/2019)

Detections are **bolded**

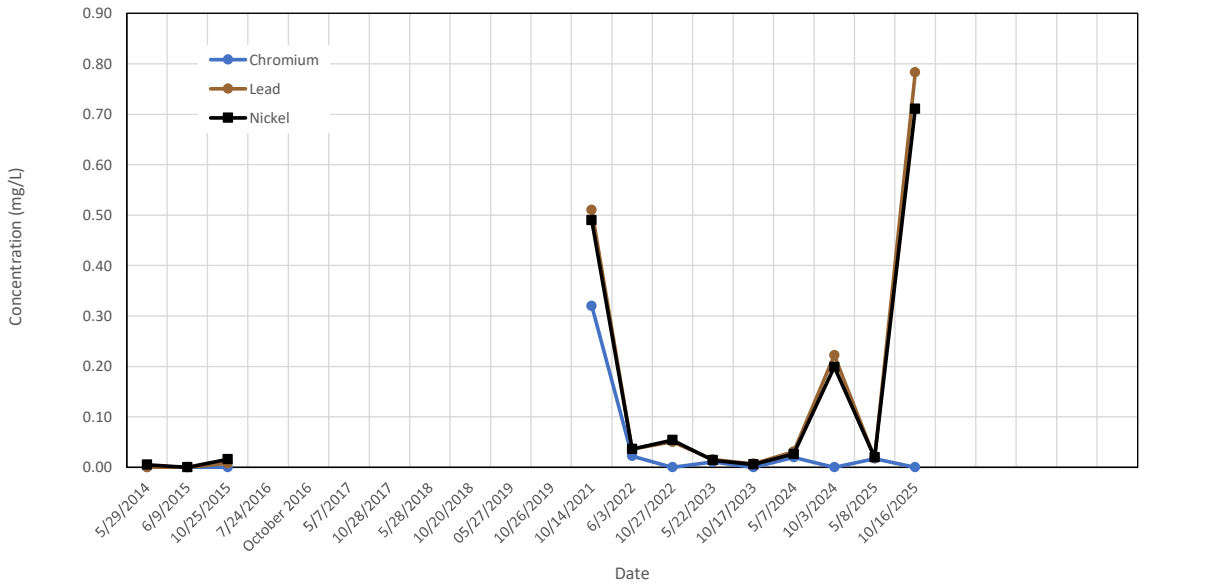
>VGES

bold (italic) indicates value exceeds PAL

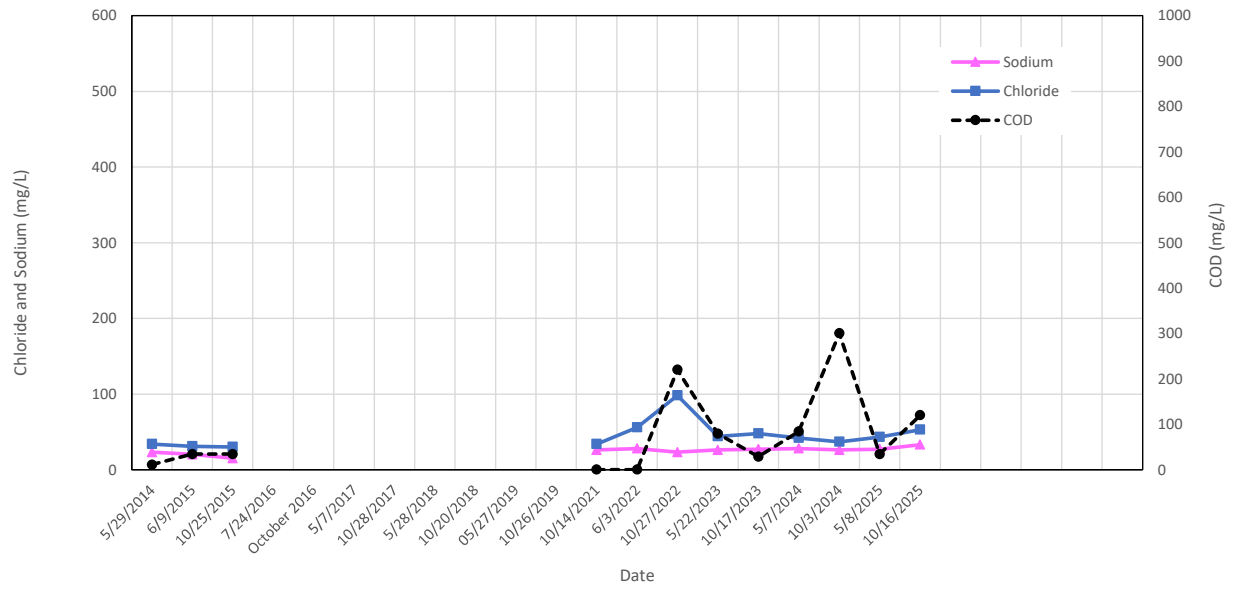
Brandon Landfill
MW-3



Brandon Landfill
MW-3



Brandon Landfill
MW-3



Brandon Closed Landfill

MW-5

PARAMETER	Sample Date:	2012	4/22/2013	10/1/2013	5/29/2014	6/9/2015	10/25/2015	7/24/2016	October 2016	5/7/2017	10/28/2017	5/28/2018	10/20/2018	05/27/2019	10/26/2019	VGES	PAL
VOCs (ug/L)																	
1,1-dichloroethane		<1.0	-	1.1	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	70	35
Diethyl Ether		-	-	6.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	-	-	-	-	-	-	-
Total Metals (mg/L)																	
Arsenic		-	Well	-	0.004	0.003	Well	0.032	Data	0.006	0.006	0.0040	0.0011	<0.0010	0.121	0.010	0.001
Cadmium		-	Not	-	<0.002	<0.002	not	0.010	not	0.0061	0.0061	0.0083	0.0027	<0.0020	<0.0020	0.005	0.001
Chromium		-	Sampled	-	<0.005	<0.005	sampled	0.020	available	0.0056	0.0056	<0.0050	<0.0050	<0.0050	<0.0050	0.100	0.050
Copper		-	-	-	<0.020	<0.020	-	0.076	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	1.300	0.650
Iron		-	-	-	31	16	-	120	-	21	21	13	4	0.22	48	-	-
Lead		-	-	-	0.003	0.003	-	0.044	-	0.0080	0.0080	0.0080	0.0022	<0.0010	<0.0010	0.015	0.002
Manganese		-	-	-	1.4	1.3	-	2.6	-	0.78	0.78	1.2	0.38	1.0	0.89	0.300	0.150
Mercury		-	-	-	<0.0002	<0.0002	-	<0.0002	-	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002	0.0005
Nickel		-	-	-	0.007	0.0066	-	0.025	-	0.0084	0.0084	0.0082	<0.0050	<0.0050	0.0077	0.100	0.050
Sodium		-	-	-	26	21	-	18	-	24	24	25	31	33	150	-	-
Zinc		-	-	-	0.020	0.020	-	0.11	-	0.026	0.026	<0.020	<0.020	<0.020	<0.020	-	-
Other Analytes (mg/L)																	
Chloride		-	-	-	38	32	-	33	-	42	43	40	64	64	260	-	-
COD		-	-	-	30	25	-	54	-	31	13	30	<10	<10	45	-	-
Field Measurements (units as noted)																	
pH (std units)		-	-	-	-	-	-	6.4	-	6.0	6.1	6.2	6.2	6.3	6.4	-	-
Temperature (deg C)		-	-	-	-	-	-	15	-	10.7	10.6	10.8	12.0	11.8	11.9	-	-
Conductivity (uS)		-	-	-	-	-	-	-	-	1,160	1,090	1,080	1,120	1,080	1,100	-	-
Water Level (feet btoc)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

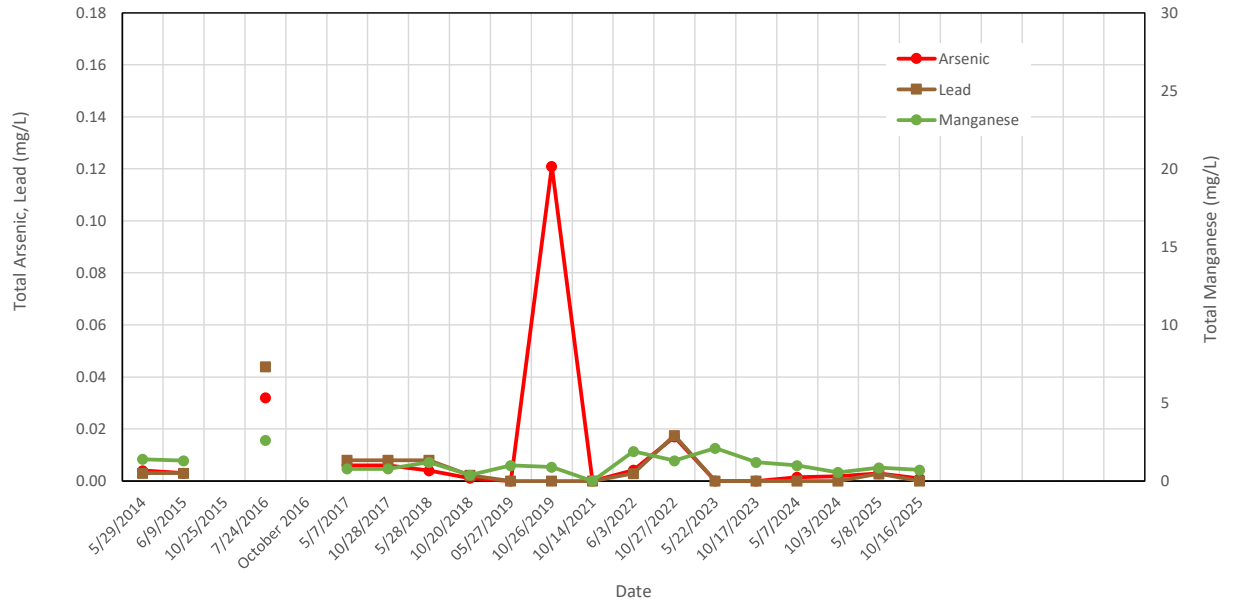
PARAMETER	Sample Date:	10/14/2021	6/3/2022	10/27/2022	5/22/2023	10/17/2023	5/7/2024	10/3/2024	5/8/2025	10/16/2025						VGES	PAL
VOCs (ug/L)																	
1,1-dichloroethane		-	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0						70	35
Total Metals (mg/L)																	
Arsenic		No	0.0042	0.0170	<0.0010	<0.0010	0.0015	0.0018	0.0029	0.0010						0.010	0.001
Cadmium		Sample	0.0016	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020						0.005	0.001
Chromium		-	0.0013	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050						0.100	0.050
Copper		Well	0.0053	0.024	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020						1.300	0.650
Iron		Inaccessible	8.0	30	0.52	5.8	11	5.1	5.8	1.6						-	-
Lead		Due to	0.0029	0.0175	<0.0010	<0.0010	<0.0010	<0.0010	0.0028	<0.0010						0.015	0.002
Manganese		Lock	1.9	1.3	2.1	1.2	1.0	0.56	0.85	0.71						0.300	0.150
Mercury		-	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002						0.002	0.0005
Nickel		-	0.0074	0.0197	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050						0.100	0.050
Sodium		-	30	34	34	31	37	37	36	36						-	-
Zinc		-	0.014	0.047	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020						-	-
Other Analytes (mg/L)																	
Chloride		-	52	59	59	63	64	65	61	63						-	-
COD		-	<10	58	35	10	33	34	14	<10						-	-
PFAS (ng/L)																	
Perfluorohexanesulfonic acid (PFHxS)		-	-	-	17	8.5	13	2.0	4.7	2.3						-	-
Perfluoroheptanoic acid (PFHpA)		-	-	-	5.1	3.7	<4.0	<1.9	<1.9	<1.9						-	-
Perfluorooctanoic acid (PFOA)		-	-	-	30	15	16	2.5	7.6	2.8						-	-
Perfluorooctanesulfonic acid (PFOS)		-	-	-	14	11	10	3.2	4.4	3.4						-	-
Perfluorononanoic acid (PFNA)		-	-	-	<1.9	<1.9	<4.0	<1.9	<1.9	<1.9						-	-
Total Regulated PFAS		-	-	-	66.1	38.2	39	7.7	16.7	8.5						20	2
Total Non-Regulated PFAS		-	-	-	14.8	16.5	5.5	3.0	11.4	4.0						-	-
Field Measurements (units as noted)																	
pH (std units)		-	6.58	7.18	6.69	6.71	6.84	6.73	7.23	6.72						-	-
Temperature (deg C)		-	13.2	11.7	10.1	10.7	11.6	12.1	10.8	10.8						-	-
Spec. Conductivity (uS/cm)		-	1,109	-	826	1,098	1,071	1,032	1,750	946						-	-
Water Level (feet btoc)		-	4.79	4.97	4.79	5.10	4.32	6.69	2.58	8.57						-	-

Notes:

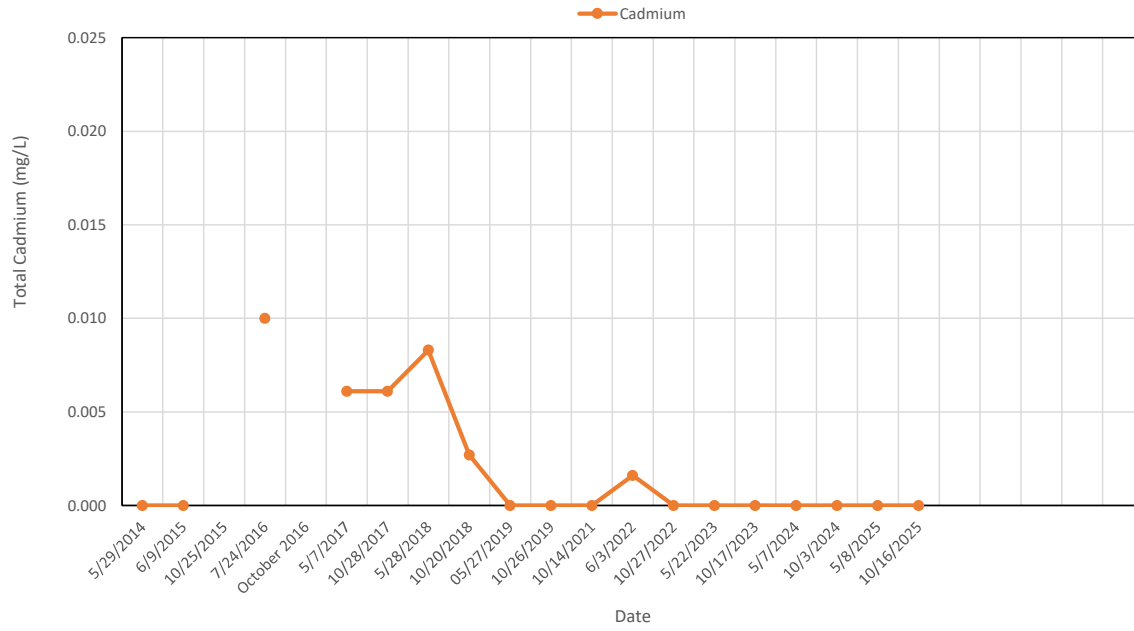
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 <X = None Detected above Detection Limit (X)

VGES = Vermont Groundwater Enforcement Standard (GWPRS 07/06/2019)
 PAL = Vermont Preventive Action Level (GWPRS 07/06/2019)
 Detections are **bolded**
 >VGES
Italic indicates value exceeds PAL

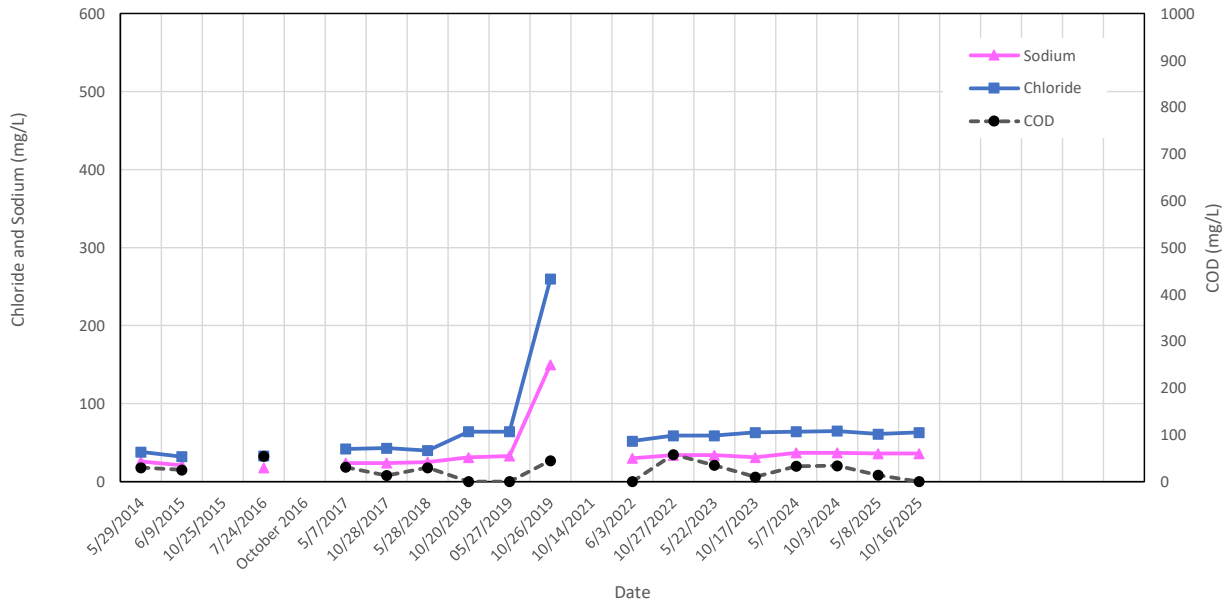
Brandon Landfill MW-5



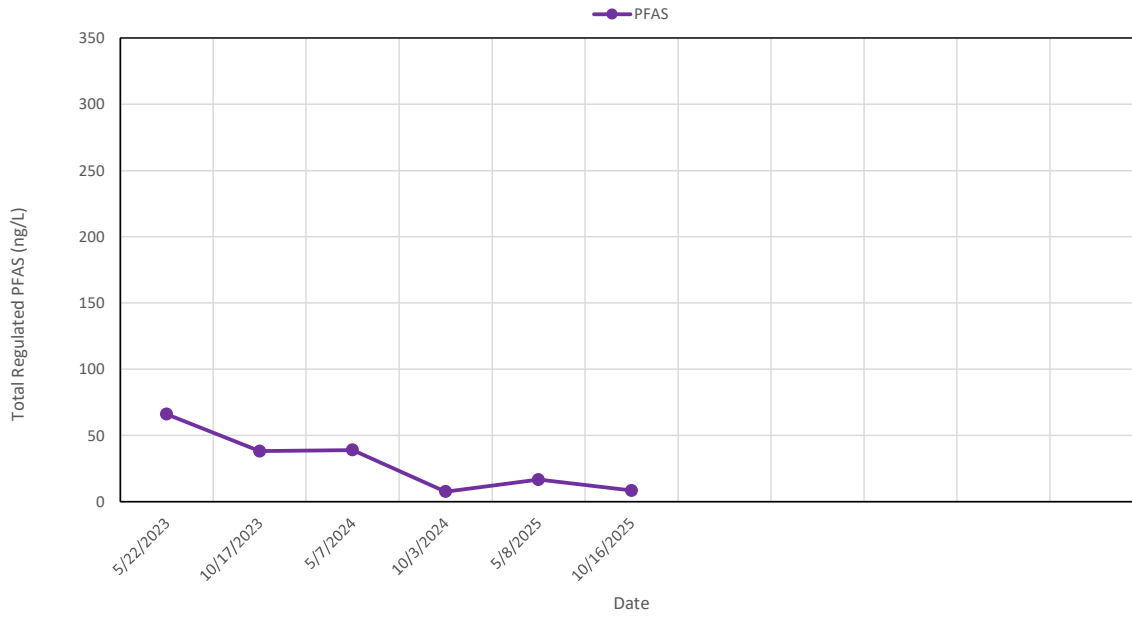
Brandon Landfill MW-5



Brandon Landfill
MW-5



Brandon Landfill
MW-5



Brandon Closed Landfill
Quality Assurance/Quality Control Samples

PARAMETER	Sample ID: Sample Date:	Trip Blank	Duplicate 10/16/2025	MW-2C 10/16/2025	RPD (%)
VOCs (ug/L)					
1,4-dichlorobenzene		<1.0	2.2	2.4	8.7
Diethyl Ether		<5.0	18.4	18.0	2.2
Acetone		<10.0	<10.0	<10.0	-
Methyl-t-butyl ether (MTBE)		<2.0	<2.0	<2.0	-
Tetrahydrofuran		<10.0	<10.0	<10.0	-
Benzene		<0.5	2.4	2.3	4.3
Chlorobenzene		<1.0	6.0	6.4	6.5
Naphthalene		<0.50	<0.5	<0.50	-
t-Butanol		<20.0	21.8	<20.0	-
Toluene		<1.0	<1.0	<1.0	-
Total VOCs		ND	50.8	29.1	-
Total Metals (mg/L)					
Arsenic		-	0.0191	0.0191	0.0
Cadmium		-	<0.0020	<0.0020	-
Chromium		-	<0.0050	<0.0050	-
Copper		-	<0.020	<0.020	-
Iron		-	24	23	4.3
Lead		-	<0.0010	<0.0010	-
Manganese		-	0.39	0.39	0.0
Mercury		-	<0.0002	<0.0002	-
Nickel		-	0.0108	0.0104	3.8
Sodium		-	160	160	0.0
Zinc		-	<0.020	<0.020	-
Other Analytes (mg/L)					
Chloride		-	260	260	0.0
COD		-	42	44	4.7

Only detected or targeted VOCs are depicted

All values reported in units noted above

"-" = Not Analyzed, RPD could not be calculated due to non-detects or No Applicable Standard

ND = None Detected

<X = None Detected above Detection Limit (X)

RPD = The results of the laboratory analysis of the duplicate sample were analyzed using a relative percent difference (RPD) analysis. The RPD is defined as 100 times the difference in reported concentration between sample and duplicate, divided by the mean of the two samples. A small RPD indicates good correlation between sample and duplicate.



APPENDIX C

Laboratory Reports



KAS, Inc
PO Box 787 100306
Williston, VT 05495
Atten: Toni Baitz

PROJECT: Brandon Landfill
WORK ORDER: 2510-36924
DATE RECEIVED: October 20, 2025
DATE REPORTED: November 07, 2025
SAMPLER: JRC/EJH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com



160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

001 Site: MW-1 Date Sampled: 10/16/25 Time: 15:14

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Chloride	73	mg/L	SM 4500-Cl-E-2011	10/22/25	N MAP	A	
Metals Digestion	Digested		EPA 3015A	10/29/25	W MLR	A	
Arsenic, Total	0.187	mg/L	EPA 6020B	11/6/25 13:55	W MGT	A	
Cadmium, Total	< 0.020	mg/L	EPA 6020B	11/6/25 11:02	W MGT	A	
Chromium, Total	< 0.50	mg/L	EPA 6020B	11/6/25 13:55	W MGT	A	
Copper, Total	< 2.0	mg/L	EPA 6020B	11/6/25 13:55	W MGT	A	
Iron, Total	560	mg/L	EPA 6010C	11/5/25 16:19	W MLR	A	
Lead, Total	0.294	mg/L	EPA 6020B	11/6/25 11:02	W MGT	A	
Manganese, Total	21	mg/L	EPA 6020B	11/6/25 13:55	W MGT	A	
Mercury, Total	< 0.0020	mg/L	EPA 6020B	11/6/25 11:02	W MGT	N	
Nickel, Total	< 0.50	mg/L	EPA 6020B	11/6/25 13:55	W MGT	A	
Sodium, Total	44	mg/L	EPA 6010C	11/5/25 16:19	W MLR	A	
Zinc, Total	< 2.0	mg/L	EPA 6020B	11/6/25 13:55	W MGT	A	

002 Site: MW-2C Date Sampled: 10/16/25 Time: 11:35

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Chloride	260	mg/L	SM 4500-Cl-E-2011	10/22/25	N MAP	A	
COD	44	mg/L	EPA 410.4	10/23/25	N WEP	A	
Metals Digestion	Digested		EPA 3015A	10/23/25	W MLR	A	
Arsenic, Total	0.0191	mg/L	EPA 6020B	10/23/25 18:25	W RSB	A	
Cadmium, Total	< 0.0020	mg/L	EPA 6020B	10/23/25 18:25	W RSB	A	
Chromium, Total	< 0.0050	mg/L	EPA 6020B	10/23/25 18:25	W RSB	A	
Copper, Total	< 0.020	mg/L	EPA 6020B	10/23/25 18:25	W RSB	A	
Iron, Total	23	mg/L	EPA 6010C	10/29/25 13:05	W MLR	A	
Lead, Total	< 0.0010	mg/L	EPA 6020B	10/23/25 18:25	W RSB	A	
Manganese, Total	0.39	mg/L	EPA 6020B	10/23/25 18:25	W RSB	A	
Mercury, Total	< 0.0002	mg/L	EPA 6020B	10/23/25 18:25	W RSB	N	
Nickel, Total	0.0104	mg/L	EPA 6020B	10/23/25 18:25	W RSB	A	
Sodium, Total	160	mg/L	EPA 6010C	10/29/25 13:32	W MLR	A	
Zinc, Total	< 0.020	mg/L	EPA 6020B	10/23/25 18:25	W RSB	A	
VOC w/ Oxygenates, Water 8260C							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Trichlorofluoromethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Diethyl ether	18.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,1-Dichloroethene	< 0.7	ug/L	EPA 8260C	10/24/25	W TRP	A	
Acetone	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Carbon disulfide	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Methylene chloride	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
t-Butanol	< 20.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	

Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

002 Site: MW-2C

Date Sampled: 10/16/25 Time: 11:35

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Di-isopropyl ether (DIPE)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,1-Dichloroethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
2-Butanone	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
2,2-Dichloropropane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
cis-1,2-Dichloroethene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromochloromethane	< 0.8	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Tetrahydrofuran	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
Benzene	2.3	ug/L	EPA 8260C	10/24/25	W TRP	A	
t-Amylmethyl ether (TAME)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,2-Dichloroethane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Dibromomethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Toluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3-Dichloropropane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
2-Hexanone	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chlorobenzene	6.4	ug/L	EPA 8260C	10/24/25	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1,1,2-Tetrachloroethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Styrene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Isopropylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
n-Propylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,3-Trichloropropane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
2-Chlorotoluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3,5-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
4-Chlorotoluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
t-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
s-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	

Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

002 Site: MW-2C Date Sampled: 10/16/25 Time: 11:35

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
4-Isopropyltoluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,4-Dichlorobenzene	2.4	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,3-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	U	
n-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3,5-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
Hexachlorobutadiene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Surr. 1 (Dibromofluoromethane)	97	%	EPA 8260C	10/24/25	W TRP	A	
Surr. 2 (Toluene d8)	98	%	EPA 8260C	10/24/25	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	98	%	EPA 8260C	10/24/25	W TRP	A	
Unidentified Peaks	3		EPA 8260C	10/24/25	W TRP	U	

003 Site: MW-3 Date Sampled: 10/16/25 Time: 13:50

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Chloride	53	mg/L	SM 4500-Cl-E-2011	10/22/25	N MAP	A	
COD	120	mg/L	EPA 410.4	10/23/25	N WEP	A	P2
Metals Digestion	Digested		EPA 3015A	10/29/25	W MLR	A	
Arsenic, Total	0.372	mg/L	EPA 6020B	11/6/25 13:58	W MGT	A	
Cadmium, Total	< 0.020	mg/L	EPA 6020B	11/6/25 11:05	W MGT	A	
Chromium, Total	< 0.50	mg/L	EPA 6020B	11/6/25 13:58	W MGT	A	
Copper, Total	< 2.0	mg/L	EPA 6020B	11/6/25 13:58	W MGT	A	
Iron, Total	870	mg/L	EPA 6010C	11/5/25 16:25	W MLR	A	
Lead, Total	0.783	mg/L	EPA 6020B	11/6/25 11:05	W MGT	A	
Manganese, Total	28	mg/L	EPA 6020B	11/6/25 13:58	W MGT	A	
Mercury, Total	< 0.0020	mg/L	EPA 6020B	11/6/25 11:05	W MGT	N	
Nickel, Total	0.711	mg/L	EPA 6020B	11/6/25 13:58	W MGT	A	
Sodium, Total	33	mg/L	EPA 6010C	11/5/25 16:25	W MLR	A	
Zinc, Total	2.1	mg/L	EPA 6020B	11/6/25 13:58	W MGT	A	
VOC w/ Oxygenates, Water 8260C							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Trichlorofluoromethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Diethyl ether	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,1-Dichloroethene	< 0.7	ug/L	EPA 8260C	10/24/25	W TRP	A	
Acetone	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Carbon disulfide	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Methylene chloride	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	

Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

003 Site: MW-3 Date Sampled: 10/16/25 Time: 13:50

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
t-Butanol	< 20.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,1-Dichloroethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
2-Butanone	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
2,2-Dichloropropane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
cis-1,2-Dichloroethene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromochloromethane	< 0.8	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Tetrahydrofuran	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
Benzene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
t-Amylmethyl ether (TAME)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,2-Dichloroethane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Dibromomethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Toluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3-Dichloropropane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
2-Hexanone	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1,1,2-Tetrachloroethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Styrene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Isopropylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
n-Propylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,3-Trichloropropane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
2-Chlorotoluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3,5-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
4-Chlorotoluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	

Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

003 Site: MW-3

Date Sampled: 10/16/25 Time: 13:50

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
t-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
s-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
4-Isopropyltoluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,3-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	U	
n-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3,5-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
Hexachlorobutadiene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Surr. 1 (Dibromofluoromethane)	96	%	EPA 8260C	10/24/25	W TRP	A	
Surr. 2 (Toluene d8)	98	%	EPA 8260C	10/24/25	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	99	%	EPA 8260C	10/24/25	W TRP	A	
Unidentified Peaks	0		EPA 8260C	10/24/25	W TRP	U	

004 Site: MW-5

Date Sampled: 10/16/25 Time: 13:12

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Chloride	63	mg/L	SM 4500-Cl-E-2011	10/22/25	N MAP	A	
COD	< 10	mg/L	EPA 410.4	10/23/25	N WEP	A	
Metals Digestion	Digested		EPA 3015A	10/23/25	W MLR	A	
Arsenic, Total	0.0010	mg/L	EPA 6020B	10/24/25 14:37	W RSB	A	
Cadmium, Total	< 0.0020	mg/L	EPA 6020B	10/24/25 14:37	W RSB	A	
Chromium, Total	< 0.0050	mg/L	EPA 6020B	11/6/25 10:43	W MGT	A	
Copper, Total	< 0.020	mg/L	EPA 6020B	10/24/25 14:37	W RSB	A	
Iron, Total	1.6	mg/L	EPA 6010C	10/29/25 13:11	W MLR	A	
Lead, Total	< 0.0010	mg/L	EPA 6020B	10/24/25 14:37	W RSB	A	
Manganese, Total	0.71	mg/L	EPA 6020B	11/6/25 10:43	W MGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 6020B	10/24/25 14:37	W RSB	N	
Nickel, Total	< 0.0050	mg/L	EPA 6020B	10/24/25 14:37	W RSB	A	
Sodium, Total	36	mg/L	EPA 6010C	10/29/25 13:11	W MLR	A	
Zinc, Total	< 0.020	mg/L	EPA 6020B	10/24/25 14:37	W RSB	A	
VOC w/ Oxygenates, Water 8260C							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Trichlorofluoromethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Diethyl ether	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,1-Dichloroethene	< 0.7	ug/L	EPA 8260C	10/24/25	W TRP	A	

Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

004 Site: MW-5

Date Sampled: 10/16/25 Time: 13:12

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Acetone	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Carbon disulfide	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Methylene chloride	< 5.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
t-Butanol	< 20.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,1-Dichloroethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
2-Butanone	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
2,2-Dichloropropane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
cis-1,2-Dichloroethene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromochloromethane	< 0.8	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Tetrahydrofuran	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
Benzene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
t-Amylmethyl ether (TAME)	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
1,2-Dichloroethane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Dibromomethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Toluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3-Dichloropropane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
2-Hexanone	< 10.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1,1,2-Tetrachloroethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Styrene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Isopropylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Bromobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
n-Propylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,3-Trichloropropane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	

Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

004 Site: MW-5 Date Sampled: 10/16/25 Time: 13:12

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
2-Chlorotoluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3,5-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
4-Chlorotoluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
t-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
s-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
4-Isopropyltoluene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,3-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	U	
n-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,3,5-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	N	
Hexachlorobutadiene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 8260C	10/24/25	W TRP	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/24/25	W TRP	A	
Surr. 1 (Dibromofluoromethane)	98	%	EPA 8260C	10/24/25	W TRP	A	
Surr. 2 (Toluene d8)	98	%	EPA 8260C	10/24/25	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	98	%	EPA 8260C	10/24/25	W TRP	A	
Unidentified Peaks	0		EPA 8260C	10/24/25	W TRP	U	

005 Site: Duplicate Date Sampled: 10/16/25 Time: 11:35

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Chloride	260	mg/L	SM 4500-Cl-E-2011	10/22/25	N MAP	A	
COD	42	mg/L	EPA 410.4	10/23/25	N WEP	A	
Metals Digestion	Digested		EPA 3015A	10/23/25	W MLR	A	
Arsenic, Total	0.0191	mg/L	EPA 6020B	10/24/25 14:39	W RSB	A	
Cadmium, Total	< 0.0020	mg/L	EPA 6020B	10/24/25 14:39	W RSB	A	
Chromium, Total	< 0.0050	mg/L	EPA 6020B	11/6/25 10:46	W MGT	A	
Copper, Total	< 0.020	mg/L	EPA 6020B	10/24/25 14:39	W RSB	A	
Iron, Total	24	mg/L	EPA 6010C	10/29/25 13:16	W MLR	A	
Lead, Total	< 0.0010	mg/L	EPA 6020B	10/24/25 14:39	W RSB	A	
Manganese, Total	0.39	mg/L	EPA 6020B	11/6/25 10:46	W MGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 6020B	10/24/25 14:39	W RSB	N	
Nickel, Total	0.0108	mg/L	EPA 6020B	10/24/25 14:39	W RSB	A	
Sodium, Total	160	mg/L	EPA 6010C	10/29/25 13:38	W MLR	A	
Zinc, Total	< 0.020	mg/L	EPA 6020B	10/24/25 14:39	W RSB	A	
VOC w/ Oxygenates, Water 8260C							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 8260C	10/28/25	W TRP	A	

Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

005 Site: Duplicate Date Sampled: 10/16/25 Time: 11:35

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Trichlorofluoromethane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Diethyl ether	18.4	ug/L	EPA 8260C	10/28/25	W TRP	N	
1,1-Dichloroethene	< 0.7	ug/L	EPA 8260C	10/28/25	W TRP	A	
Acetone	< 10.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Carbon disulfide	< 5.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Methylene chloride	< 5.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
t-Butanol	21.8	ug/L	EPA 8260C	10/28/25	W TRP	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
1,1-Dichloroethane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
2-Butanone	< 10.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
2,2-Dichloropropane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
cis-1,2-Dichloroethene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Bromochloromethane	< 0.8	ug/L	EPA 8260C	10/28/25	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Tetrahydrofuran	< 10.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,1-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
Benzene	2.4	ug/L	EPA 8260C	10/28/25	W TRP	A	
t-Amylmethyl ether (TAME)	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
1,2-Dichloroethane	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
Dibromomethane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Toluene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,3-Dichloropropane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
2-Hexanone	< 10.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Chlorobenzene	6.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,1,1,2-Tetrachloroethane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Styrene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Isopropylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	

Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

005 Site: Duplicate Date Sampled: 10/16/25 Time: 11:35

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Bromobenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
n-Propylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2,3-Trichloropropane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
2-Chlorotoluene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,3,5-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
4-Chlorotoluene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
t-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
s-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
4-Isopropyltoluene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,4-Dichlorobenzene	2.2	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2,3-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	U	
n-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,3,5-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
Hexachlorobutadiene	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Surr. 1 (Dibromofluoromethane)	98	%	EPA 8260C	10/28/25	W TRP	A	
Surr. 2 (Toluene d8)	99	%	EPA 8260C	10/28/25	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	100	%	EPA 8260C	10/28/25	W TRP	A	
Unidentified Peaks	3		EPA 8260C	10/28/25	W TRP	U	

006 Site: Trip Blank Date Sampled: 10/16/25 0:00

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC w/ Oxygenates, Water 8260C							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Trichlorofluoromethane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Diethyl ether	< 5.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
1,1-Dichloroethene	< 0.7	ug/L	EPA 8260C	10/28/25	W TRP	A	
Acetone	< 10.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Carbon disulfide	< 5.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Methylene chloride	< 5.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
t-Butanol	< 20.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
1,1-Dichloroethane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	

Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

006	Site: Trip Blank	Date Sampled: 10/16/25	0:00				
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
2-Butanone	< 10.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
2,2-Dichloropropane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
cis-1,2-Dichloroethene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Bromochloromethane	< 0.8	ug/L	EPA 8260C	10/28/25	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Tetrahydrofuran	< 10.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,1-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
Benzene	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
t-Amylmethyl ether (TAME)	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
1,2-Dichloroethane	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
Dibromomethane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Toluene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,3-Dichloropropane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
2-Hexanone	< 10.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,1,1,2-Tetrachloroethane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Styrene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Isopropylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Bromobenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
n-Propylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2,3-Trichloropropane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
2-Chlorotoluene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,3,5-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
4-Chlorotoluene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
t-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
s-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
4-Isopropyltoluene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	

Laboratory Report

DATE REPORTED: 11/07/2025

CLIENT: KAS, Inc
PROJECT: Brandon LandfillWORK ORDER: 2510-36924
DATE RECEIVED: 10/20/2025

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
006	Site: Trip Blank			Date Sampled: 10/16/25			0:00
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2,3-Trimethylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	U	
n-Butylbenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,3,5-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	N	
Hexachlorobutadiene	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 8260C	10/28/25	W TRP	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	10/28/25	W TRP	A	
Surr. 1 (Dibromofluoromethane)	99	%	EPA 8260C	10/28/25	W TRP	A	
Surr. 2 (Toluene d8)	99	%	EPA 8260C	10/28/25	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	99	%	EPA 8260C	10/28/25	W TRP	A	
Unidentified Peaks	0		EPA 8260C	10/28/25	W TRP	U	

Report Summary of Qualifiers and Notes

P2: The sample was not preserved to a pH < 2.

November 21, 2025

Toni Baitz
KAS Environmental
589 Avenue D
Williston, VT 05495

Project Location: 31 Corona St., Brandon, VT
Client Job Number:
Project Number: 609210052
Laboratory Work Order Number: 25J1766

Enclosed are results of analyses for samples as received by the laboratory on October 23, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

KAS Environmental
589 Avenue D
Williston, VT 05495
ATTN: Toni Baitz

REPORT DATE: 11/21/2025

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 609210052

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25J1766

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: 31 Corona St., Brandon, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
ERB	25J1766-01	Equipment Blank Water		SOP-454 PFAS	
MW-2C	25J1766-02	Ground Water		SOP-454 PFAS	
MW-5	25J1766-03	Ground Water		SOP-454 PFAS	



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Qualifications:

L-01

Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

4,8-Dioxa-3H-perfluorononanoic acid (ADONA)

B416450-BS1

4:2 Fluorotelomersulfonic acid (4:2FTS A)

B416450-BS1

8:2 Fluorotelomersulfonic acid (8:2FTS A)

B416450-BS1

N-EtFOSAA (NEtFOSAA)

25J1766-01[ERB]

Perfluorobutanoic acid (PFBA)

25J1766-01[ERB]

Perfluorononanesulfonic acid (PFNS)

B416450-BS1

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)

B416450-BS1, B416450-BSD1

Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)

25J1766-01[ERB], B416450-BS1, B416450-BSD1

Perfluoro-1-butanefulfonamide (FBSA)

25J1766-01[ERB]

Perfluoro-1-hexanesulfonamide (FHxSA)

25J1766-01[ERB]

Perfluoro-4-oxapentanoic acid (PFMPA)

B416450-BS1, B416450-BSD1

Perfluoro-5-oxahexanoic acid (PFMBA)

B416450-BS1, B416450-BSD1

Perfluorobutanesulfonic acid (PFBS)

25J1766-01[ERB]

Perfluorodecanoic acid (PFDA)

25J1766-01[ERB]

Perfluoroheptanesulfonic acid (PFHpS)

25J1766-01[ERB]

Perfluorohexanesulfonic acid (PFHxS)

25J1766-01[ERB]

Perfluorohexanoic acid (PFHxA)

25J1766-01[ERB]

Perfluoropentanesulfonic acid (PFPeS)

25J1766-01[ERB]

Perfluoropentanoic acid (PFPeA)

25J1766-01[ERB]

Perfluorotetradecanoic acid (PFTA)

B416450-BS1, B416450-BSD1

L-06

Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)

B416450-BS1, B416450-BSD1

Perfluoro-1-butanefulfonamide (FBFA)

B416450-BS1, B416450-BSD1

Perfluoro-1-hexanesulfonamide (FHxSA)

B416450-BS1, B416450-BSD1

Perfluorobutanesulfonic acid (PFBS)

B416450-BS1, B416450-BSD1

Perfluorodecanoic acid (PFDA)

B416450-BS1, B416450-BSD1

Perfluoroheptanesulfonic acid (PFHpS)

B416450-BS1, B416450-BSD1

Perfluorohexanesulfonic acid (PFHxS)

B416450-BS1, B416450-BSD1

Perfluorohexanoic acid (PFHxA)

B416450-BS1, B416450-BSD1

Perfluoropentanesulfonic acid (PFPeS)

B416450-BS1, B416450-BSD1

Perfluoropentanoic acid (PFPeA)

B416450-BS1, B416450-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

N-EtFOSAA (NEtFOSAA)

B416450-BSD1

Perfluorobutanoic acid (PFBA)

B416450-BS1

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

M2-6:2FTS

B416450-BLK1

M2-8:2FTS

25J1766-02RE1[MW-2C]

PF-18

Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

M2-4:2FTS

25J1766-02RE1[MW-2C]

M2-6:2FTS

25J1766-02RE1[MW-2C]

M2PFTA

25J1766-02RE1[MW-2C]

M8FOSA

25J1766-02RE1[MW-2C]

M8PFOA

25J1766-02RE1[MW-2C]

MPFBA

25J1766-02RE1[MW-2C]

MPFDoA

25J1766-02RE1[MW-2C]



The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style.

Meghan E. Kelley
Reporting Specialist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 31 Corona St., Brandon, VT

Sample Description:

Work Order: 25J1766

Date Received: 10/23/2025

Field Sample #: ERB

Sampled: 10/16/2025 11:05

Sample ID: 25J1766-01

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	2.1	ng/L	1	L-01	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	2.1	ng/L	1	L-02	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluoropentanoic acid (PFPeA)	ND	2.1	ng/L	1	L-02	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorohexanoic acid (PFHxA)	ND	2.1	ng/L	1	L-02	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
11Cl-PF3OUdS (F53B Major)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
9Cl-PF3ONS (F53B Minor)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorodecanoic acid (PFDA)	ND	2.1	ng/L	1	L-02	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorododecanoic acid (PFDoA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.1	ng/L	1	L-02	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.1	ng/L	1	L-02	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
N-EtFOSAA (NEtFOSAA)	ND	2.1	ng/L	1	L-01	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
N-MeFOSAA (NMeFOSAA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorotetradecanoic acid (PFTA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorotridecanoic acid (PFTTrDA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorooctanesulfonamide (FOSA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorononanesulfonic acid (PFNS)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluoro-1-hexanesulfonamide (FHxSA)	ND	2.1	ng/L	1	L-02	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluoro-1-butanefulfonamide (FBSA)	ND	2.1	ng/L	1	L-02	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	2.1	ng/L	1	L-02	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.9	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	2.1	ng/L	1	L-02	SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluoroundecanoic acid (PFUnA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluoroheptanoic acid (PFHpA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorooctanoic acid (PFOA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW
Perfluorononanoic acid (PFNA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/7/25	11/12/25 15:32	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 31 Corona St., Brandon, VT

Sample Description:

Work Order: 25J1766

Date Received: 10/23/2025

Field Sample #: MW-2C

Sampled: 10/16/2025 11:35

Sample ID: 25J1766-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	12	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorobutanesulfonic acid (PFBS)	4.2	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluoropentanoic acid (PFPeA)	20	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorohexanoic acid (PFHxA)	31	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
11Cl-PF3OUdS (F53B Major)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
9Cl-PF3ONS (F53B Minor)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorodecanoic acid (PFDA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorododecanoic acid (PFDoA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
N-EtFOSAA (NEtFOSAA)	6.1	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
N-MeFOSAA (NMeFOSAA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorotetradecanoic acid (PFTA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorotridecanoic acid (PFTTrDA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorooctanesulfonamide (FOSA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorononanesulfonic acid (PFNS)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluoro-1-hexanesulfonamide (FHxSA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluoro-1-butanefulfonamide (FBSA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorohexanesulfonic acid (PFHxS)	17	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluoropentanesulfonic acid (PFPeS)	3.1	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluoroundecanoic acid (PFUnA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluoroheptanoic acid (PFHpA)	20	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorooctanoic acid (PFOA)	60	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorooctanesulfonic acid (PFOS)	37	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW
Perfluorononanoic acid (PFNA)	ND	2.1	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:16	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 31 Corona St., Brandon, VT

Sample Description:

Work Order: 25J1766

Date Received: 10/23/2025

Field Sample #: MW-5

Sampled: 10/16/2025 13:12

Sample ID: 25J1766-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	4.0	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
N-EtFOSAA (NEtFOSAA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
N-MeFOSAA (NMeFOSAA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorotetradecanoic acid (PFTA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorotridecanoic acid (PFTTrDA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorooctanesulfonamide (FOSA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorononanesulfonic acid (PFNS)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluoro-1-hexanesulfonamide (FHxSA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluoro-1-butanefulfonamide (FBSA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorohexanesulfonic acid (PFHxS)	2.3	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorooctanoic acid (PFOA)	2.8	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorooctanesulfonic acid (PFOS)	3.4	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L	1		SOP-454 PFAS	11/13/25	11/19/25 18:23	QNW

Sample Extraction Data

Prep Method:SOP 454-PFAAS **Analytical Method:**SOP-454 PFAS

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25J1766-01 [ERB]	B416450	240	1.00	11/07/25

Prep Method:SOP 454-PFAAS **Analytical Method:**SOP-454 PFAS

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25J1766-02RE1 [MW-2C]	B417426	241	1.00	11/13/25
25J1766-03RE1 [MW-5]	B417426	259	1.00	11/13/25

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B416450 - SOP 454-PFAAS

Blank (B416450-BLK1)

Prepared: 11/07/25 Analyzed: 11/12/25

Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	2.0	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L							
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	2.0	ng/L							
Perfluoro-1-hexanesulfonamide (FHxSA)	ND	2.0	ng/L							
Perfluoro-1-butanesulfonamide (FBSA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							

LCS (B416450-BS1)

Prepared: 11/07/25 Analyzed: 11/12/25

Perfluorobutanoic acid (PFBA)	13.2	2.0	ng/L	10.00		132	*	73-129		L-07
Perfluorobutanesulfonic acid (PFBS)	13.8	2.0	ng/L	10.00		138	*	72-130		L-06
Perfluoropentanoic acid (PFPeA)	13.7	2.0	ng/L	10.00		137	*	72-129		L-06
Perfluorohexanoic acid (PFHxA)	13.9	2.0	ng/L	10.00		139	*	72-129		L-06
11Cl-PF3OUdS (F53B Major)	12.2	2.0	ng/L	10.00		122		35.6-144		
9Cl-PF3ONS (F53B Minor)	12.4	2.0	ng/L	10.00		124		51-130		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	13.4	2.0	ng/L	10.00		134	*	57.1-131		L-01
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13.8	2.0	ng/L	10.00		138		47.6-152		
8:2 Fluorotelomersulfonic acid (8:2FTS A)	15.6	2.0	ng/L	10.00		156	*	67-138		L-01
Perfluorodecanoic acid (PFDA)	14.2	2.0	ng/L	10.00		142	*	71-129		L-06
Perfluorododecanoic acid (PFDoA)	12.4	2.0	ng/L	10.00		124		72-134		

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B416450 - SOP 454-PFAAS										
LCS (B416450-BS1)										
					Prepared: 11/07/25 Analyzed: 11/12/25					
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	15.1	2.0	ng/L	10.00		151	* 62.3-144			L-02, L-06
Perfluoroheptanesulfonic acid (PFHpS)	15.2	2.0	ng/L	10.00		152	* 69-134			L-06
N-EtFOSAA (NEtFOSAA)	13.3	2.0	ng/L	10.00		133	61-135			
N-MeFOSAA (NMeFOSAA)	13.3	2.0	ng/L	10.00		133	65-136			
Perfluorotetradecanoic acid (PFTA)	13.9	2.0	ng/L	10.00		139	* 71-132			L-02
Perfluorotridecanoic acid (PFTrDA)	13.7	2.0	ng/L	10.00		137	65-144			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	14.6	2.0	ng/L	10.00		146	* 63-143			L-01
Perfluorodecanesulfonic acid (PFDS)	13.0	2.0	ng/L	10.00		130	53-142			
Perfluorooctanesulfonamide (FOSA)	10.4	2.0	ng/L	10.00		104	67-137			
Perfluorononanesulfonic acid (PFNS)	12.9	2.0	ng/L	10.00		129	* 69-127			L-01
Perfluoro-1-hexanesulfonamide (FHxSA)	15.6	2.0	ng/L	10.00		156	* 35-131			L-06
Perfluoro-1-butanesulfonamide (FBSA)	13.8	2.0	ng/L	10.00		138	* 53.1-125			L-06
Perfluorohexanesulfonic acid (PFHxS)	13.9	2.0	ng/L	10.00		139	* 68-131			L-06
Perfluoro-4-oxapentanoic acid (PFMPA)	14.8	2.0	ng/L	10.00		148	* 62.3-138			L-02
Perfluoro-5-oxahexanoic acid (PFMBA)	14.6	2.0	ng/L	10.00		146	* 60.1-138			L-02
6:2 Fluorotelomersulfonic acid (6:2FTS A)	13.2	2.0	ng/L	10.00		132	64-140			
Perfluoropentanesulfonic acid (PFPeS)	14.1	2.0	ng/L	10.00		141	* 71-127			L-06
Perfluoroundecanoic acid (PFUnA)	13.0	2.0	ng/L	10.00		130	69-133			
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	16.0	2.0	ng/L	10.00		160	* 58.2-144			L-02
Perfluoroheptanoic acid (PFHpA)	12.9	2.0	ng/L	10.00		129	72-130			
Perfluorooctanoic acid (PFOA)	10.5	2.0	ng/L	10.00		105	71-133			
Perfluorooctanesulfonic acid (PFOS)	12.3	2.0	ng/L	10.00		123	65-140			
Perfluorononanoic acid (PFNA)	11.4	2.0	ng/L	10.00		114	69-130			
LCS Dup (B416450-BS1)										
					Prepared: 11/07/25 Analyzed: 11/12/25					
Perfluorobutanoic acid (PFBA)	12.8	2.0	ng/L	10.00		128	73-129	3.74	30	
Perfluorobutanesulfonic acid (PFBS)	13.8	2.0	ng/L	10.00		138	* 72-130	0.410	30	L-06
Perfluoropentanoic acid (PFPeA)	13.3	2.0	ng/L	10.00		133	* 72-129	3.03	30	L-06
Perfluorohexanoic acid (PFHxA)	13.1	2.0	ng/L	10.00		131	* 72-129	5.94	30	L-06
11Cl-PF3OUdS (F53B Major)	12.1	2.0	ng/L	10.00		121	35.6-144	0.848	30.4	
9Cl-PF3ONS (F53B Minor)	11.4	2.0	ng/L	10.00		114	51-130	8.31	27.1	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	12.6	2.0	ng/L	10.00		126	57.1-131	6.08	20.6	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	15.2	2.0	ng/L	10.00		152	47.6-152	9.51	30.8	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	13.4	2.0	ng/L	10.00		134	67-138	15.3	30	
Perfluorodecanoic acid (PFDA)	13.4	2.0	ng/L	10.00		134	* 71-129	5.80	30	L-06
Perfluorododecanoic acid (PFDoA)	11.2	2.0	ng/L	10.00		112	72-134	9.56	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	14.7	2.0	ng/L	10.00		147	* 62.3-144	2.70	19.9	L-02, L-06
Perfluoroheptanesulfonic acid (PFHpS)	13.8	2.0	ng/L	10.00		138	* 69-134	9.55	30	L-06
N-EtFOSAA (NEtFOSAA)	13.9	2.0	ng/L	10.00		139	* 61-135	5.05	30	L-07
N-MeFOSAA (NMeFOSAA)	11.9	2.0	ng/L	10.00		119	65-136	11.9	30	
Perfluorotetradecanoic acid (PFTA)	13.4	2.0	ng/L	10.00		134	* 71-132	4.13	30	L-02
Perfluorotridecanoic acid (PFTrDA)	12.0	2.0	ng/L	10.00		120	65-144	14.0	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	14.1	2.0	ng/L	10.00		141	63-143	3.35	30	
Perfluorodecanesulfonic acid (PFDS)	13.3	2.0	ng/L	10.00		133	53-142	2.37	30	
Perfluorooctanesulfonamide (FOSA)	9.60	2.0	ng/L	10.00		96.0	67-137	7.85	30	
Perfluorononanesulfonic acid (PFNS)	12.4	2.0	ng/L	10.00		124	69-127	3.93	30	
Perfluoro-1-hexanesulfonamide (FHxSA)	14.4	2.0	ng/L	10.00		144	* 35-131	7.55	25.1	L-06
Perfluoro-1-butanesulfonamide (FBSA)	13.1	2.0	ng/L	10.00		131	* 53.1-125	5.05	22.5	L-06

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B416450 - SOP 454-PFAAS

LCS Dup (B416450-BSD1)

Prepared: 11/07/25 Analyzed: 11/12/25

Perfluorohexanesulfonic acid (PFHxS)	13.3	2.0	ng/L	10.00		133	* 68-131	4.02	30	L-06
Perfluoro-4-oxapentanoic acid (PFMPA)	14.2	2.0	ng/L	10.00		142	* 62.3-138	4.45	20.6	L-02
Perfluoro-5-oxahexanoic acid (PFMBA)	14.1	2.0	ng/L	10.00		141	* 60.1-138	3.76	20.4	L-02
6:2 Fluorotelomersulfonic acid (6:2FTS A)	13.3	2.0	ng/L	10.00		133	64-140	0.799	30	
Perfluoropentanesulfonic acid (PFPeS)	13.2	2.0	ng/L	10.00		132	* 71-127	6.40	30	L-06
Perfluoroundecanoic acid (PFUnA)	11.7	2.0	ng/L	10.00		117	69-133	10.5	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	15.0	2.0	ng/L	10.00		150	* 58.2-144	6.08	21.9	L-02
Perfluoroheptanoic acid (PFHpA)	12.4	2.0	ng/L	10.00		124	72-130	3.94	30	
Perfluorooctanoic acid (PFOA)	9.96	2.0	ng/L	10.00		99.6	71-133	5.42	30	
Perfluorooctanesulfonic acid (PFOS)	12.6	2.0	ng/L	10.00		126	65-140	2.67	30	
Perfluorononanoic acid (PFNA)	10.8	2.0	ng/L	10.00		108	69-130	5.16	30	

Batch B417426 - SOP 454-PFAAS

Blank (B417426-BLK1)

Prepared: 11/13/25 Analyzed: 11/19/25

Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	2.0	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L							
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	2.0	ng/L							
Perfluoro-1-hexanesulfonamide (FHxSA)	ND	2.0	ng/L							
Perfluoro-1-butanesulfonamide (FBSA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B417426 - SOP 454-PFAAS

LCS (B417426-BS1)

Prepared: 11/13/25 Analyzed: 11/19/25

Perfluorobutanoic acid (PFBA)	8.94	2.0	ng/L	10.00		89.4	73-129			
Perfluorobutanesulfonic acid (PFBS)	9.43	2.0	ng/L	10.00		94.3	72-130			
Perfluoropentanoic acid (PFPeA)	9.07	2.0	ng/L	10.00		90.7	72-129			
Perfluorohexanoic acid (PFHxA)	9.08	2.0	ng/L	10.00		90.8	72-129			
11Cl-PF3OUdS (F53B Major)	8.34	2.0	ng/L	10.00		83.4	35.6-144			
9Cl-PF3ONS (F53B Minor)	8.32	2.0	ng/L	10.00		83.2	51-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.46	2.0	ng/L	10.00		84.6	57.1-131			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.21	2.0	ng/L	10.00		72.1	47.6-152			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	8.09	2.0	ng/L	10.00		80.9	67-138			
Perfluorodecanoic acid (PFDA)	8.53	2.0	ng/L	10.00		85.3	71-129			
Perfluorododecanoic acid (PFDoA)	8.03	2.0	ng/L	10.00		80.3	72-134			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	11.3	2.0	ng/L	10.00		113	62.3-144			
Perfluoroheptanesulfonic acid (PFHpS)	9.25	2.0	ng/L	10.00		92.5	69-134			
N-EtFOSAA (NEtFOSAA)	9.13	2.0	ng/L	10.00		91.3	61-135			
N-MeFOSAA (NMeFOSAA)	8.63	2.0	ng/L	10.00		86.3	65-136			
Perfluorotetradecanoic acid (PFTA)	8.55	2.0	ng/L	10.00		85.5	71-132			
Perfluorotridecanoic acid (PFTrDA)	7.61	2.0	ng/L	10.00		76.1	65-144			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.17	2.0	ng/L	10.00		81.7	63-143			
Perfluorodecanesulfonic acid (PFDS)	8.69	2.0	ng/L	10.00		86.9	53-142			
Perfluorooctanesulfonamide (FOSA)	6.78	2.0	ng/L	10.00		67.8	67-137			
Perfluorononanesulfonic acid (PFNS)	7.72	2.0	ng/L	10.00		77.2	69-127			
Perfluoro-1-hexanesulfonamide (FHxSA)	9.44	2.0	ng/L	10.00		94.4	35-131			
Perfluoro-1-butanefulfonamide (FBSA)	9.19	2.0	ng/L	10.00		91.9	53.1-125			
Perfluorohexanesulfonic acid (PFHxS)	10.1	2.0	ng/L	10.00		101	68-131			
Perfluoro-4-oxapentanoic acid (PFMPA)	10.5	2.0	ng/L	10.00		105	62.3-138			
Perfluoro-5-oxahexanoic acid (PFMBA)	10.3	2.0	ng/L	10.00		103	60.1-138			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.63	2.0	ng/L	10.00		96.3	64-140			
Perfluoropentanesulfonic acid (PFPeS)	8.86	2.0	ng/L	10.00		88.6	71-127			
Perfluoroundecanoic acid (PFUnA)	8.29	2.0	ng/L	10.00		82.9	69-133			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10.6	2.0	ng/L	10.00		106	58.2-144			
Perfluoroheptanoic acid (PFHpA)	8.28	2.0	ng/L	10.00		82.8	72-130			
Perfluorooctanoic acid (PFOA)	7.55	2.0	ng/L	10.00		75.5	71-133			
Perfluorooctanesulfonic acid (PFOS)	8.24	2.0	ng/L	10.00		82.4	65-140			
Perfluorononanoic acid (PFNA)	7.02	2.0	ng/L	10.00		70.2	69-130			

LCS Dup (B417426-BS1)

Prepared: 11/13/25 Analyzed: 11/19/25

Perfluorobutanoic acid (PFBA)	8.83	2.0	ng/L	10.00		88.3	73-129	1.20	30	
Perfluorobutanesulfonic acid (PFBS)	9.50	2.0	ng/L	10.00		95.0	72-130	0.812	30	
Perfluoropentanoic acid (PFPeA)	9.18	2.0	ng/L	10.00		91.8	72-129	1.16	30	
Perfluorohexanoic acid (PFHxA)	9.25	2.0	ng/L	10.00		92.5	72-129	1.82	30	
11Cl-PF3OUdS (F53B Major)	8.78	2.0	ng/L	10.00		87.8	35.6-144	5.23	30.4	
9Cl-PF3ONS (F53B Minor)	8.78	2.0	ng/L	10.00		87.8	51-130	5.38	27.1	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.65	2.0	ng/L	10.00		86.5	57.1-131	2.18	20.6	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.70	2.0	ng/L	10.00		77.0	47.6-152	6.49	30.8	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.05	2.0	ng/L	10.00		90.5	67-138	11.2	30	
Perfluorodecanoic acid (PFDA)	9.26	2.0	ng/L	10.00		92.6	71-129	8.22	30	
Perfluorododecanoic acid (PFDoA)	8.37	2.0	ng/L	10.00		83.7	72-134	4.21	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	11.3	2.0	ng/L	10.00		113	62.3-144	0.468	19.9	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B417426 - SOP 454-PFAAS										
LCS Dup (B417426-BSD1)										
					Prepared: 11/13/25 Analyzed: 11/19/25					
Perfluoroheptanesulfonic acid (PFHpS)	10.2	2.0	ng/L	10.00		102	69-134	9.64	30	
N-EtFOSAA (NEtFOSAA)	9.07	2.0	ng/L	10.00		90.7	61-135	0.727	30	
N-MeFOSAA (NMeFOSAA)	8.84	2.0	ng/L	10.00		88.4	65-136	2.43	30	
Perfluorotetradecanoic acid (PFTA)	8.95	2.0	ng/L	10.00		89.5	71-132	4.64	30	
Perfluorotridecanoic acid (PFTrDA)	7.92	2.0	ng/L	10.00		79.2	65-144	4.05	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.13	2.0	ng/L	10.00		81.3	63-143	0.483	30	
Perfluorodecanesulfonic acid (PFDS)	8.47	2.0	ng/L	10.00		84.7	53-142	2.55	30	
Perfluorooctanesulfonamide (FOSA)	6.83	2.0	ng/L	10.00		68.3	67-137	0.716	30	
Perfluorononanesulfonic acid (PFNS)	8.82	2.0	ng/L	10.00		88.2	69-127	13.3	30	
Perfluoro-1-hexanesulfonamide (FHxSA)	9.73	2.0	ng/L	10.00		97.3	35-131	3.08	25.1	
Perfluoro-1-butanefulfonamide (FBSA)	9.16	2.0	ng/L	10.00		91.6	53.1-125	0.340	22.5	
Perfluorohexanesulfonic acid (PFHxS)	9.92	2.0	ng/L	10.00		99.2	68-131	1.97	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	10.5	2.0	ng/L	10.00		105	62.3-138	0.288	20.6	
Perfluoro-5-oxahexanoic acid (PFMBA)	10.4	2.0	ng/L	10.00		104	60.1-138	0.653	20.4	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.12	2.0	ng/L	10.00		91.2	64-140	5.43	30	
Perfluoropentanesulfonic acid (PFPeS)	9.31	2.0	ng/L	10.00		93.1	71-127	5.05	30	
Perfluoroundecanoic acid (PFUnA)	8.53	2.0	ng/L	10.00		85.3	69-133	2.85	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10.8	2.0	ng/L	10.00		108	58.2-144	1.43	21.9	
Perfluoroheptanoic acid (PFHpA)	8.92	2.0	ng/L	10.00		89.2	72-130	7.47	30	
Perfluorooctanoic acid (PFOA)	7.70	2.0	ng/L	10.00		77.0	71-133	1.97	30	
Perfluorooctanesulfonic acid (PFOS)	8.69	2.0	ng/L	10.00		86.9	65-140	5.38	30	
Perfluorononanoic acid (PFNA)	7.91	2.0	ng/L	10.00		79.1	69-130	11.9	30	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-06	Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-18	Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
ERB (25J1766-01)			Lab File ID: 25J1766-01.d			Analyzed: 11/12/25 15:32			
M8FOSA	512511	4.003767	787,986.00	4.003783	65	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	201341.5	2.622333	268,998.00	2.622333	75	50 - 150	0.0000	+/-0.50	
M2PF _{TA}	1821975	4.345483	2,232,239.00	4.345483	82	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	226991.2	3.818033	261,332.00	3.818033	87	50 - 150	0.0000	+/-0.50	
MPF _{BA}	747403.9	1.094033	907,786.00	1.094033	82	50 - 150	0.0000	+/-0.50	
M3HF _{PO-DA}	208538.9	2.923333	248,819.00	2.923333	84	50 - 150	0.0000	+/-0.50	
M6PF _{DA}	1294299	3.818517	1,492,727.00	3.818517	87	50 - 150	0.0000	+/-0.50	
M3PF _{BS}	285086.7	1.995633	361,923.00	1.99565	79	50 - 150	0.0000	+/-0.50	
M7PF _{UnA}	1265097	3.961133	1,507,580.00	3.969133	84	50 - 150	-0.0080	+/-0.50	
M2-6:2FTS	244503	3.469267	224,354.00	3.469283	109	50 - 150	0.0000	+/-0.50	
M5PF _{PeA}	609274.1	1.816383	739,235.00	1.808117	82	50 - 150	0.0083	+/-0.50	
M5PF _{HxA}	1089999	2.716117	1,278,879.00	2.70795	85	50 - 150	0.0082	+/-0.50	
M3PF _{HxS}	217671.8	3.244717	276,094.00	3.244717	79	50 - 150	0.0000	+/-0.50	
M4PF _{HpA}	1161338	3.220933	1,427,198.00	3.220933	81	50 - 150	0.0000	+/-0.50	
M8PF _{OA}	1327160	3.477733	1,598,680.00	3.477733	83	50 - 150	0.0000	+/-0.50	
M8PF _{OS}	213040.1	3.659617	242,825.00	3.659617	88	50 - 150	0.0000	+/-0.50	
M9PF _{NA}	1169479	3.6606	1,407,293.00	3.6606	83	50 - 150	0.0000	+/-0.50	
MPF _{DoA}	1253713	4.10405	1,481,190.00	4.10405	85	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	383324.7	3.976583	464,894.00	3.976583	82	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	395205.4	3.896617	485,962.00	3.896617	81	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MW-2C (25J1766-02RE1)			Lab File ID: 25J1766-02RE1.d			Analyzed: 11/19/25 18:16			
M8FOSA	404238.5	4.003767	1,080,762.00	4.003767	37	50 - 150	0.0000	+/-0.50	*
M2-4:2FTS	613935	2.6141	310,487.00	2.63055	198	50 - 150	-0.0164	+/-0.50	*
M2PFTA	178454.5	4.345483	3,687,820.00	4.345483	05	50 - 150	0.0000	+/-0.50	*
M2-8:2FTS	491253.5	3.818033	312,104.00	3.825983	157	50 - 150	-0.0080	+/-0.50	*
MPFBA	325875.9	1.085733	1,335,948.00	1.094033	24	50 - 150	-0.0083	+/-0.50	*
M3HFPO-DA	187988.7	2.9152	293,430.00	2.923333	64	50 - 150	-0.0081	+/-0.50	
M6PFDA	1611839	3.8185	2,296,714.00	3.818517	70	50 - 150	0.0000	+/-0.50	
M3PFBS	274126.3	1.98735	454,729.00	2.003933	60	50 - 150	-0.0166	+/-0.50	
M7PFUnA	1485743	3.969117	2,453,280.00	3.969133	61	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	465490	3.461317	246,932.00	3.469283	189	50 - 150	-0.0080	+/-0.50	*
M5PFPeA	610443.8	1.799817	1,120,919.00	1.816383	54	50 - 150	-0.0166	+/-0.50	
M5PFHxA	1367823	2.699767	2,065,024.00	2.716117	66	50 - 150	-0.0164	+/-0.50	
M3PFHxS	257624.6	3.244717	372,969.00	3.252733	69	50 - 150	-0.0080	+/-0.50	
M4PFHpA	1468971	3.21285	2,314,281.00	3.220933	63	50 - 150	-0.0081	+/-0.50	
M8PFOA	1182860	3.477733	2,591,868.00	3.477733	46	50 - 150	0.0000	+/-0.50	*
M8PFOS	245403	3.659617	370,679.00	3.659617	66	50 - 150	0.0000	+/-0.50	
M9PFNA	1200744	3.660583	2,224,954.00	3.6606	54	50 - 150	0.0000	+/-0.50	
MPFDoA	876967.8	4.10405	2,492,832.00	4.1121	35	50 - 150	-0.0080	+/-0.50	*
D5-NEtFOSAA	407646.4	3.976583	560,594.00	3.976583	73	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	366647.8	3.8966	645,492.00	3.90485	57	50 - 150	-0.0083	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MW-5 (25J1766-03RE1)			Lab File ID: 25J1766-03RE1.d			Analyzed: 11/19/25 18:23			
M8FOSA	697740.8	4.003767	1,080,762.00	4.003767	65	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	178539.7	2.63055	310,487.00	2.63055	58	50 - 150	0.0000	+/-0.50	
M2PFTA	2377101	4.345467	3,687,820.00	4.345483	64	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	262824.1	3.818017	312,104.00	3.825983	84	50 - 150	-0.0080	+/-0.50	
MPFBA	848743.9	1.094033	1,335,948.00	1.094033	64	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	313748.9	2.923333	293,430.00	2.923333	107	50 - 150	0.0000	+/-0.50	
M6PFDA	1627667	3.8185	2,296,714.00	3.818517	71	50 - 150	0.0000	+/-0.50	
M3PFBS	322156.8	1.995633	454,729.00	2.003933	71	50 - 150	-0.0083	+/-0.50	
M7PFUnA	1836272	3.969117	2,453,280.00	3.969133	75	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	230709.7	3.469267	246,932.00	3.469283	93	50 - 150	0.0000	+/-0.50	
M5PFPeA	821390.6	1.816383	1,120,919.00	1.816383	73	50 - 150	0.0000	+/-0.50	
M5PFHxA	1486647	2.716117	2,065,024.00	2.716117	72	50 - 150	0.0000	+/-0.50	
M3PFHxS	262771.2	3.244717	372,969.00	3.252733	70	50 - 150	-0.0080	+/-0.50	
M4PFHpA	1610548	3.220933	2,314,281.00	3.220933	70	50 - 150	0.0000	+/-0.50	
M8PFOA	1903896	3.477733	2,591,868.00	3.477733	73	50 - 150	0.0000	+/-0.50	
M8PFOS	273932.3	3.659617	370,679.00	3.659617	74	50 - 150	0.0000	+/-0.50	
M9PFNA	1561823	3.660583	2,224,954.00	3.6606	70	50 - 150	0.0000	+/-0.50	
MPFDoA	1780013	4.104033	2,492,832.00	4.1121	71	50 - 150	-0.0081	+/-0.50	
D5-NEtFOSAA	467373.7	3.976583	560,594.00	3.976583	83	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	501981.2	3.8966	645,492.00	3.90485	78	50 - 150	-0.0083	+/-0.50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B416450-BLK1)			Lab File ID: B416450-BLK1.d			Analyzed: 11/12/25 15:02			
M8FOSA	747692.2	4.003767	787,986.00	4.003783	95	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	292754.6	2.622333	268,998.00	2.622333	109	50 - 150	0.0000	+/-0.50	
M2PFTA	2485723	4.345467	2,232,239.00	4.345483	111	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	326860.8	3.818017	261,332.00	3.818033	125	50 - 150	0.0000	+/-0.50	
MPFBA	1076516	1.094033	907,786.00	1.094033	119	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	317365	2.923333	248,819.00	2.923333	128	50 - 150	0.0000	+/-0.50	
M6PFDA	1675597	3.8185	1,492,727.00	3.818517	112	50 - 150	0.0000	+/-0.50	
M3PFBS	430956.4	1.995633	361,923.00	1.99565	119	50 - 150	0.0000	+/-0.50	
M7PFUnA	1685583	3.969117	1,507,580.00	3.969133	112	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	402969.1	3.469267	224,354.00	3.469283	180	50 - 150	0.0000	+/-0.50	*
M5PFPeA	872789.3	1.816383	739,235.00	1.808117	118	50 - 150	0.0083	+/-0.50	
M5PFHxA	1548732	2.716117	1,278,879.00	2.70795	121	50 - 150	0.0082	+/-0.50	
M3PFHxS	336279	3.244717	276,094.00	3.244717	122	50 - 150	0.0000	+/-0.50	
M4PFHpA	1685147	3.220933	1,427,198.00	3.220933	118	50 - 150	0.0000	+/-0.50	
M8PFOA	2021480	3.477733	1,598,680.00	3.477733	126	50 - 150	0.0000	+/-0.50	
M8PFOS	312442.9	3.659617	242,825.00	3.659617	129	50 - 150	0.0000	+/-0.50	
M9PFNA	1636170	3.660583	1,407,293.00	3.6606	116	50 - 150	0.0000	+/-0.50	
MPFDoA	1693528	4.104033	1,481,190.00	4.10405	114	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	509846.7	3.976567	464,894.00	3.976583	110	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	607057	3.8966	485,962.00	3.896617	125	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (B416450-BS1)			Lab File ID: B416450-BS1.d			Analyzed: 11/12/25 14:48			
M8FOSA	594736.4	4.003767	787,986.00	4.003783	75	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	247423.3	2.622333	268,998.00	2.622333	92	50 - 150	0.0000	+/-0.50	
M2PFTA	1546099	4.345467	2,232,239.00	4.345483	69	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	243564.3	3.818017	261,332.00	3.818033	93	50 - 150	0.0000	+/-0.50	
MPFBA	847126.2	1.094033	907,786.00	1.094033	93	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	229469.5	2.923333	248,819.00	2.923333	92	50 - 150	0.0000	+/-0.50	
M6PFDA	1374440	3.8185	1,492,727.00	3.818517	92	50 - 150	0.0000	+/-0.50	
M3PFBS	313373.4	1.995633	361,923.00	1.99565	87	50 - 150	0.0000	+/-0.50	
M7PFUnA	1328296	3.969117	1,507,580.00	3.969133	88	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	264934.8	3.469267	224,354.00	3.469283	118	50 - 150	0.0000	+/-0.50	
M5PFPeA	691711.1	1.816383	739,235.00	1.808117	94	50 - 150	0.0083	+/-0.50	
M5PFHxA	1211306	2.707933	1,278,879.00	2.70795	95	50 - 150	0.0000	+/-0.50	
M3PFHxS	233982.5	3.244717	276,094.00	3.244717	85	50 - 150	0.0000	+/-0.50	
M4PFHpA	1332820	3.220917	1,427,198.00	3.220933	93	50 - 150	0.0000	+/-0.50	
M8PFOA	1529987	3.477717	1,598,680.00	3.477733	96	50 - 150	0.0000	+/-0.50	
M8PFOS	222042.9	3.6596	242,825.00	3.659617	91	50 - 150	0.0000	+/-0.50	
M9PFNA	1256381	3.660583	1,407,293.00	3.6606	89	50 - 150	0.0000	+/-0.50	
MPFDoA	1179406	4.104033	1,481,190.00	4.10405	80	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	378496.1	3.976583	464,894.00	3.976583	81	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	468222.4	3.8966	485,962.00	3.896617	96	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (B416450-BSD1)			Lab File ID: B416450-BSD1.d			Analyzed: 11/12/25 14:55			
M8FOSA	644695.4	4.003767	787,986.00	4.003783	82	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	255514.6	2.622333	268,998.00	2.622333	95	50 - 150	0.0000	+/-0.50	
M2PFTA	2151415	4.345467	2,232,239.00	4.345483	96	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	258002.6	3.818033	261,332.00	3.818033	99	50 - 150	0.0000	+/-0.50	
MPFBA	863910.1	1.094033	907,786.00	1.094033	95	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	229708.1	2.923333	248,819.00	2.923333	92	50 - 150	0.0000	+/-0.50	
M6PFDA	1397010	3.8185	1,492,727.00	3.818517	94	50 - 150	0.0000	+/-0.50	
M3PFBS	338187.2	1.995633	361,923.00	1.99565	93	50 - 150	0.0000	+/-0.50	
M7PFUnA	1414373	3.969117	1,507,580.00	3.969133	94	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	239071.8	3.469283	224,354.00	3.469283	107	50 - 150	0.0000	+/-0.50	
M5PFPeA	696763.7	1.816383	739,235.00	1.808117	94	50 - 150	0.0083	+/-0.50	
M5PFHxA	1242536	2.7161	1,278,879.00	2.70795	97	50 - 150	0.0082	+/-0.50	
M3PFHxS	265702.1	3.244717	276,094.00	3.244717	96	50 - 150	0.0000	+/-0.50	
M4PFHpA	1375050	3.220933	1,427,198.00	3.220933	96	50 - 150	0.0000	+/-0.50	
M8PFOA	1632795	3.477733	1,598,680.00	3.477733	102	50 - 150	0.0000	+/-0.50	
M8PFOS	247715.5	3.659617	242,825.00	3.659617	102	50 - 150	0.0000	+/-0.50	
M9PFNA	1352631	3.660583	1,407,293.00	3.6606	96	50 - 150	0.0000	+/-0.50	
MPFDoA	1318561	4.104033	1,481,190.00	4.10405	89	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	372602.8	3.976583	464,894.00	3.976583	80	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	499418	3.8966	485,962.00	3.896617	103	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B417426-BLK1)			Lab File ID: B417426-BLK1.d			Analyzed: 11/19/25 14:24			
M8FOSA	750138.7	4.003767	1,080,762.00	4.003767	69	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	272676.3	2.638767	310,487.00	2.638767	88	50 - 150	0.0000	+/-0.50	
M2PFTA	2878228	4.3536	3,687,820.00	4.3536	78	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	299921.9	3.825983	312,104.00	3.825983	96	50 - 150	0.0000	+/-0.50	
MPFBA	1105388	1.102333	1,335,948.00	1.102333	83	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	293264.3	2.931533	293,430.00	2.931533	100	50 - 150	0.0000	+/-0.50	
M6PFDA	1984816	3.826467	2,296,714.00	3.82645	86	50 - 150	0.0000	+/-0.50	
M3PFBS	380627.3	2.012217	454,729.00	2.012217	84	50 - 150	0.0000	+/-0.50	
M7PFUnA	1952043	3.977133	2,453,280.00	3.977133	80	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	303338.3	3.477233	246,932.00	3.477233	123	50 - 150	0.0000	+/-0.50	
M5PFPeA	928917.9	1.824683	1,120,919.00	1.824683	83	50 - 150	0.0000	+/-0.50	
M5PFHxA	1675459	2.733017	2,065,024.00	2.733017	81	50 - 150	0.0000	+/-0.50	
M3PFHxS	318451.6	3.252733	372,969.00	3.252733	85	50 - 150	0.0000	+/-0.50	
M4PFHpA	1903865	3.229617	2,314,281.00	3.229617	82	50 - 150	0.0000	+/-0.50	
M8PFOA	2174907	3.485683	2,591,868.00	3.485683	84	50 - 150	0.0000	+/-0.50	
M8PFOS	302509.3	3.667583	370,679.00	3.667567	82	50 - 150	0.0000	+/-0.50	
M9PFNA	1774758	3.66855	2,224,954.00	3.66855	80	50 - 150	0.0000	+/-0.50	
MPFDoA	1986665	4.1121	2,492,832.00	4.1121	80	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	472169.4	3.984583	560,594.00	3.984583	84	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	591691.2	3.90485	645,492.00	3.90485	92	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (B417426-BS1)			Lab File ID: B417426-BS1.d			Analyzed: 11/19/25 14:09			
M8FOSA	728236.6	4.003767	1,080,762.00	4.003767	67	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	261518	2.638767	310,487.00	2.638767	84	50 - 150	0.0000	+/-0.50	
M2PFTA	2912748	4.353583	3,687,820.00	4.3536	79	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	299516	3.825967	312,104.00	3.825983	96	50 - 150	0.0000	+/-0.50	
MPFBA	1118786	1.102333	1,335,948.00	1.102333	84	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	284108	2.93155	293,430.00	2.931533	97	50 - 150	0.0000	+/-0.50	
M6PFDA	1976159	3.82645	2,296,714.00	3.82645	86	50 - 150	0.0000	+/-0.50	
M3PFBS	375543.3	2.012217	454,729.00	2.012217	83	50 - 150	0.0000	+/-0.50	
M7PFUnA	1944942	3.977117	2,453,280.00	3.977133	79	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	272423.2	3.477233	246,932.00	3.477233	110	50 - 150	0.0000	+/-0.50	
M5PFPeA	943675	1.824683	1,120,919.00	1.824683	84	50 - 150	0.0000	+/-0.50	
M5PFHxA	1708542	2.733017	2,065,024.00	2.733017	83	50 - 150	0.0000	+/-0.50	
M3PFHxS	301026	3.252733	372,969.00	3.252733	81	50 - 150	0.0000	+/-0.50	
M4PFHpA	1897491	3.229617	2,314,281.00	3.229617	82	50 - 150	0.0000	+/-0.50	
M8PFOA	2158008	3.485683	2,591,868.00	3.485683	83	50 - 150	0.0000	+/-0.50	
M8PFOS	296928.5	3.667567	370,679.00	3.667567	80	50 - 150	0.0000	+/-0.50	
M9PFNA	1908717	3.66855	2,224,954.00	3.66855	86	50 - 150	0.0000	+/-0.50	
MPFDoA	1997312	4.112083	2,492,832.00	4.1121	80	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	461478.6	3.984583	560,594.00	3.984583	82	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	535674	3.90485	645,492.00	3.90485	83	50 - 150	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (B417426-BSD1)			Lab File ID: B417426-BSD1.d			Analyzed: 11/19/25 14:16			
M8FOSA	765025.6	4.003767	1,080,762.00	4.003767	71	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	270155.6	2.638767	310,487.00	2.638767	87	50 - 150	0.0000	+/-0.50	
M2PF _T A	2751370	4.3536	3,687,820.00	4.3536	75	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	283321.2	3.825983	312,104.00	3.825983	91	50 - 150	0.0000	+/-0.50	
MPFBA	1133715	1.102333	1,335,948.00	1.102333	85	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	310082	2.93155	293,430.00	2.931533	106	50 - 150	0.0000	+/-0.50	
M6PFDA	1912490	3.826467	2,296,714.00	3.82645	83	50 - 150	0.0000	+/-0.50	
M3PFBS	369893.9	2.012217	454,729.00	2.012217	81	50 - 150	0.0000	+/-0.50	
M7PFUnA	1948393	3.977133	2,453,280.00	3.977133	79	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	267383.6	3.477233	246,932.00	3.477233	108	50 - 150	0.0000	+/-0.50	
M5PFPeA	933904.9	1.824683	1,120,919.00	1.824683	83	50 - 150	0.0000	+/-0.50	
M5PFHxA	1690816	2.733017	2,065,024.00	2.733017	82	50 - 150	0.0000	+/-0.50	
M3PFHxS	287164.5	3.252733	372,969.00	3.252733	77	50 - 150	0.0000	+/-0.50	
M4PFHpA	1837380	3.229633	2,314,281.00	3.229617	79	50 - 150	0.0000	+/-0.50	
M8PFOA	2164838	3.485683	2,591,868.00	3.485683	84	50 - 150	0.0000	+/-0.50	
M8PFOS	274674.4	3.667583	370,679.00	3.667567	74	50 - 150	0.0000	+/-0.50	
M9PFNA	1702215	3.66855	2,224,954.00	3.66855	77	50 - 150	0.0000	+/-0.50	
MPFDoA	1954424	4.1121	2,492,832.00	4.1121	78	50 - 150	0.0000	+/-0.50	
D5-NEtFOSAA	439651.4	3.984583	560,594.00	3.984583	78	50 - 150	0.0000	+/-0.50	
D3-NMeFOSAA	545531.8	3.90485	645,492.00	3.90485	85	50 - 150	0.0000	+/-0.50	

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SOP-454 PFAS in Water</i>	
Perfluorobutanoic acid (PFBA)	NH-P,PA,NY
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,NY
Perfluoropentanoic acid (PFPeA)	NH-P,PA,NY
Perfluorohexanoic acid (PFHxA)	NH-P,PA,NY
11Cl-PF3OUdS (F53B Major)	NH-P,PA,NY
9Cl-PF3ONS (F53B Minor)	NH-P,PA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,NY
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,NY
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH-P,PA
Perfluorodecanoic acid (PFDA)	NH-P,PA,NY
Perfluorododecanoic acid (PFDoA)	NH-P,PA,NY
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	NH-P,PA,NY
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,NY
N-EtFOSAA (NEtFOSAA)	NH-P,PA,NY
N-MeFOSAA (NMeFOSAA)	NH-P,PA,NY
Perfluorotetradecanoic acid (PFTA)	NH-P,PA,NY
Perfluorotridecanoic acid (PFTrDA)	NH-P,PA,NY
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH-P,PA,NY
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA
Perfluorooctanesulfonamide (FOSA)	NH-P,PA
Perfluorononanesulfonic acid (PFNS)	NH-P,PA
Perfluoro-1-hexanesulfonamide (FHxSA)	NH-P,PA
Perfluoro-1-butanefulfonamide (FBSA)	NH-P,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,NY
Perfluoro-4-oxapentanoic acid (PFMPA)	NH-P,PA,NY
Perfluoro-5-oxahexanoic acid (PFMBA)	NH-P,PA,NY
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH-P,PA,NY
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,NY
Perfluoroundecanoic acid (PFUnA)	NH-P,PA,NY
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,PA,NY
Perfluorooctanoic acid (PFOA)	NH-P,PA,NY
Perfluorooctanesulfonic acid (PFOS)	NH-P,PA,NY
Perfluorononanoic acid (PFNA)	NH-P,PA,NY


Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2026
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2026
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2026

2557766 KAF

LAB USE ONLY - Affix Workorder/Login Label Here

Scan QR Code for instructions



Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

Proj. Migr:

AcctNum / Client ID:

Table #:

Profile / Template:

Prelog / Bottle Ord. ID:

Sample Comment

Preservation non-conformance identified for sample

** Container size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) Encore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HI, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod Phosphate, (9) Ascorbic Acid, (10) MeOH, (11) Other

CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace® Location Requested (City/State): Brandon, Vermont

Company Name: KAS, Inc.
Street Address: 589 Avenue D, Ste. 10
Williston, VT 05495
Customer Project #: 609210052
Project Name: Brandon Landfill

Contact/Report To: Toni Baitz
Phone #: 802-383-0486
E-Mail: tonib@kas-consulting.com
Cc E-Mail: jeremyr@kas-consulting.com

Invoice to:
Invoice Email:

Purchase Order # (if applicable):
Quote #:

County / State origin of sample(s): Rutland Vermont Reportable Yes No

Regulatory Program (DW, RCRA, etc.) as applicable: NT DEC VGES
Rush (Pre-approval required): Same Day 1 Day 2 Day 3 Day Other Normal
Date Results Requested:

Time Zone Collected: AK PT MT CT ET
Data Deliverables:

Matrix: FB G, GW G, GW G
Customer Sample ID: ERB, MW-2C, MW-5
Comp / Grab: G, G, G
Date: 10/16/25, 10/16/25, 10/16/25
Time: 11:05, 11:35, 13:12
Collected or Composite End Time: 11:05, 11:35, 13:12
Cont.: 2, 2, 2
Residual Chlorine Result Units:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): Yes No
Analysis:

Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SD), Sludge (SL), Cask (CK), Leachate (LL), Bissolid (BS), Other (OT) - Field Blank

Additional Instructions from Pace®:

Collected By: * EJT
Printed Name: Emily Hankerson
Signature: [Signature]

Received by (Company Signature): [Signature]
Date/Time: 10/16/25 17:00

Received by (Company Signature): [Signature]
Date/Time: 10-25 10:25

Received by (Company Signature): [Signature]
Date/Time: 10-23-25 16:25

Received by (Company Signature): [Signature]
Date/Time:

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: **Thermometer ID:** **Correction Factor (°C):** **Obs. Temp (°C):** **Corrected Temp (°C):** On Ice

Trading Number: 11:75

Date/Time: 10-26-25
Date/Time: 10/23/25
Date/Time:

Delivered by: In-Person Courier
 FedEx UPS Other

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