
TOWN OF DIGHTON

Annual Environmental Monitoring Report

Est. _____
Dighton Landfill
Dighton, Massachusetts

August 2024

Prepared For:

Town of Dighton
979 Somerset Avenue
Dighton, MA 02715



Green Seal Environmental, LLC

114 State Road, Building B, Sagamore Beach, MA 02562 | Tel: (508) 888-6034 | Fax: (508) 888-1506 | www.gseenv.com

Certification

In accordance with the Massachusetts Solid Waste Management Regulations (310 CMR 19.011), the Town of Dighton, Massachusetts submits this certification for the attached August 2024 Environmental Monitoring Report prepared for us by Green Seal Environmental, LLC.

I, Tom Ferry, attest under the pains and penalties of perjury that: (a) I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification statement; (b) based upon my inquiry of those persons responsible for obtaining the information, the information contained in this submittal is, to the best of my knowledge, true, accurate, and complete; (c) I am fully authorized to bind the entity required to submit these documents and to make this attestation on behalf of such entity; (d) I am aware that there are significant penalties, including, but not limited to, possible administrative and civil penalties for submitting false, inaccurate, or incomplete information and possible fines and imprisonment for knowingly submitting false, inaccurate, or incomplete information.



Tom Ferry, Town of Dighton, Highway Superintendent

Date: _____

11/6/25



Green Seal Environmental, LLC

MassDOT Certified

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December 22, 2024

Mr. Mark Dakers, Section Chief
MASSDEP – SOUTHEAST REGIONAL OFFICE
Division of Solid Waste Management
20 Riverside Drive
Lakeville, Massachusetts 02347

RE: Summary of Groundwater, Surface Water, and Landfill Gas Sampling Results
Dighton Sanitary Landfill – August 2024
Tremont Street
Dighton, Massachusetts

Dear Mr. Dakers:

On behalf of the Town of Dighton, Green Seal Environmental, LLC (GSE) collected groundwater and surface water samples on August 21, 22, and 23, 2024 and field-analyzed landfill gas at the Dighton Landfill in Dighton, Massachusetts on September 19, 2024. The sampling was performed in accordance with Massachusetts Solid Waste Management Regulations (310 CMR 19.132) and the Post-Closure and Monitoring Maintenance Plan (PCMMP) for the landfill, approved in August of 2010. All aqueous samples were delivered to New England Testing Laboratory, Inc. in West Warwick, Rhode Island for analysis of the required parameters in the Solid Waste Management Regulations and EMP.

This report contains the following:

- Appendix A: Post Closure Environmental Monitoring Site Plan which shows each sampling location
- Appendix B: Table 1 – Summary of groundwater levels measured at each groundwater monitoring well
Table 2 – Summary of groundwater analytical results for indicator parameters, dissolved metals, and parameters measured in the field
Table 3 – Summary of groundwater analytical results for volatile organic compounds (VOCs)
Table 4 – Summary of surface water analytical results for indicator parameters, dissolved metals, and parameters measured in the field
Table 4A – Summary of the calculated National Recommended Water Quality Criteria (NRWQC) and analytical results for the hardness-dependent metals for surface water samples
Table 5 – Summary of surface water analytical results for VOCs
Table 6 – Summary of the perimeter landfill gas monitoring
- Appendix C: Laboratory reports from New England Testing Laboratory, Inc., in West Warwick, Rhode Island

The results of this sampling event are discussed below.

SUMMARY OF GROUNDWATER MONITORING

GSE collected groundwater samples from the following groundwater monitoring well locations: MW-1, MW-3, MW-5S, MW-5D, MW-6S, MW-6D, MW-7S, MW-8S and MW-8D. A duplicate sample (DUP-1) was collected from monitoring well MW-6S for QA/QC purposes. It should be noted that groundwater monitoring well MW-7D is damaged and was unable to be sampled during this round of sampling.

Samples were obtained using a submersible or peristaltic pump. Wells were purged of approximately three to five well volumes prior to sampling. Samples for dissolved metals were field-filtered using a 0.45-micron filter.

The Massachusetts Solid Waste Management Regulations (310 CMR 19.000) require that sampling results be compared to the established Federal EPA Drinking Water Standards and the State Primary Maximum Contaminant Level (MCL) and Secondary Maximum Contaminant Level (SMCL) standards for each parameter. The PCMMP requires the sampling results be also compared to the Massachusetts Contingency Plan (MCP, 310 CMR 40.00) GW-1 and GW-3 groundwater standards. Tables 1 through 3 present the groundwater elevation measurements and sampling results. Per the Comprehensive Site Assessment (CSA), groundwater generally flows to the east across the northern and eastern portion of the site with a southeast flow direction in the western portion of the site. MW-1 represents upgradient groundwater conditions.

MCLs and/or EPA Primary Standards were met or exceeded in the following groundwater samples:

- Arsenic exceeded the MCL and EPA Primary Standard of 0.010 mg/L in the samples collected from wells MW-3 and MW-5D with concentrations of 0.013 mg/L and 0.015 mg/L, respectively.
- Vinyl chloride exceeded the MCL and EPA Primary Standard of 2 ug/L in the samples collected from wells MW-3, MW-5D, and MW-7S with concentrations of 66 ug/L, 10 ug/L, and 6 ug/L, respectively.

ORSGs, SMCLs and/or EPA Secondary Standards were met or exceeded in the following groundwater samples:

- The pH was below the SMCL and EPA Secondary Standard minimum of 6.5 standard units in the samples collected from all groundwater monitoring wells except MW-6S, MW-6D, MW-7S, and MW-8D with concentrations ranging between 5.60 and 6.45 standard units.
- Iron exceeded the SMCL and EPA Secondary Standard of 0.300 mg/L in the samples collected from all groundwater monitoring wells except MW-1 and MW-5S with concentrations ranging between 1.01 mg/L and 25.8 mg/L.
- Manganese exceeded the SMCL and EPA Secondary Standard of 0.050 mg/L in the samples collected from all groundwater monitoring wells with concentrations ranging between 0.169 mg/L and 5.92 mg/L.
- Sodium exceeded the SMCL of 20 mg/L in the samples collected from groundwater monitoring wells MW-3, MW-5D, and MW-7S, with concentrations of 68.9 mg/L, 43.5 mg/L, and 32.6 mg/L, respectively.
- 1,4-Dioxane exceeded the ORSG of 0.3 ug/L in the samples collected from groundwater monitoring wells MW-5D, MW-8S, and MW-8D with concentrations of 0.490 ug/L, 0.550 ug/L, and 0.800 ug/L, respectively.

Secondary standards are established for the aesthetics and taste of a public drinking supply and are not health based. Groundwater at the site is not used for drinking water.

MCP GW-1 and GW-3 Standards were met or exceeded in the following groundwater samples:

- Vinyl Chloride exceeded the GW-1 standard of 2 ug/L in the samples collected from groundwater monitoring wells MW-3, MW-5D, and MW-7S with concentrations of 66 ug/L, 10 ug/L, and 6 ug/L, respectively.
- 1,4-Dioxane exceeded the GW-1 standard of 0.3 ug/L in the samples collected from groundwater monitoring wells MW-5D, MW-8S, and MW-8D with concentrations of 0.490 ug/L, 0.550 ug/L, and 0.800 ug/L, respectively.

Groundwater sampling results from August 2024 are generally consistent with previous measurements.

The next annual groundwater sampling round is scheduled for August 2025.

SUMMARY OF SURFACE WATER MONITORING

GSE collected a surface water sample from monitoring location SUR-1. The Massachusetts Solid Waste Management Regulations (310 CMR 19.000) require that sampling results be compared to established National Recommended Water Quality Criteria (NRWQC) for each parameter. Hardness is a factor of the NRWQC for certain metals. If hardness at a surface water sample location varies from the standard of 100 mg/L, the NRWQC must be calculated using the measured hardness value. The hardness at the surface water sampling location was 47.7 mg/L, and the NRWQC was calculated for metals cadmium, copper, lead, silver, and zinc for SUR-1. The individual calculated criteria are shown for each sampling location on Table 4A.

No NRWQCs are established for VOCs analyzed per Method 8260 as required in the current monitoring program. No VOCs (including 1,4-Dioxane) were detected above their respective laboratory reporting limits in the sample collected from SUR-1.

Surface water monitoring results from August 2024 are generally consistent with previous measurements.

The next annual surface water sampling round is scheduled for August 2025.

QUALITY CONTROL SAMPLES

Quality control samples are collected to verify that laboratory and sampling procedures are consistent and to indicate any possible cross contamination and resulting false positive analysis results. The following summarize the results of the quality control samples collected during this sampling round:

- The duplicate sample (DUP-1) results closely matched those of its associated sample taken at MW-6S, indicating laboratory analysis was consistent.
- The trip blank sample (TB-1) results were non-detect, indicating that sample storage and transport did not introduce contaminants.

SUMMARY OF GAS MONITORING

Post-closure landfill gas monitoring consists of sampling landfill gas wells GM-1 through GM-4 and ambient air in numerous utility structures and buildings located on and adjacent to the Dighton Landfill. All locations are shown on the Environmental Monitoring Site Plan contained in Attachment 1. Gas monitoring wells are generally located on the northern edge of the landfill mound. It should be noted that Landfill gas well GM-4, and ambient air locations Garage Stand and Trailer, have been demolished/removed from site and are no longer sampled. Additionally, the equipment garage has been restored to that purpose following relocation of the animal shelter and kennel which previously occupied this space. These changes are reflected in the site plan in Appendix A.

Each well, ambient air, and probe location was sampled for methane (CH₄) in percent by volume and percent of the Lower Explosive Limit (LEL), carbon dioxide (CO₂) in percent by volume, oxygen (O₂) in percent by volume, and hydrogen sulfide (H₂S) in parts per million by volume (ppmv) using a Landtec GEM 5000 Gas Meter; and volatile organic compounds (VOCs) in parts per million by volume (ppmv) using a MiniRae 3000 photo-ionization detector (PID), lamp eV 10.6.

Table 6 presents the initial and final readings collected at the perimeter landfill gas monitoring wells and probes (if applicable), and also presents the ambient air sampling results.

The following summarizes the results of the monitoring event:

- Methane was detected at gas monitoring well GM-3 at a final concentration of 0.1% by volume, equivalent to 2% LEL. Methane was not detected at any other gas monitoring locations during this round of sampling.
- Carbon dioxide was detected at gas monitoring well GM-3 at a final concentration of 0.1% by volume. Carbon dioxide was detected in the ambient air of the animal shelter at 0.1% by volume.
- Oxygen was detected in all subsurface landfill gas monitoring wells with final concentrations ranging between 19.0% and 19.4% by volume. Oxygen was detected at all ambient air sampling locations at final concentrations ranging between 18.8% and 20.1% by volume.
- Hydrogen sulfide was not detected at any of the subsurface landfill monitoring wells or at any of the ambient air sampling locations during this round of sampling.
- VOCs were not detected at any of the subsurface landfill monitoring wells or at any of the ambient air sampling locations during this round of sampling.

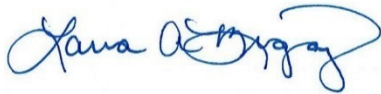
In general, gas sampling results are consistent with previous sampling rounds.

The next round of semi-annual landfill gas monitoring is scheduled for February 2025.

If you have any questions or require additional information, please do not hesitate to contact me at (508) 888-6034

Sincerely,

GREEN SEAL ENVIRONMENTAL, LLC

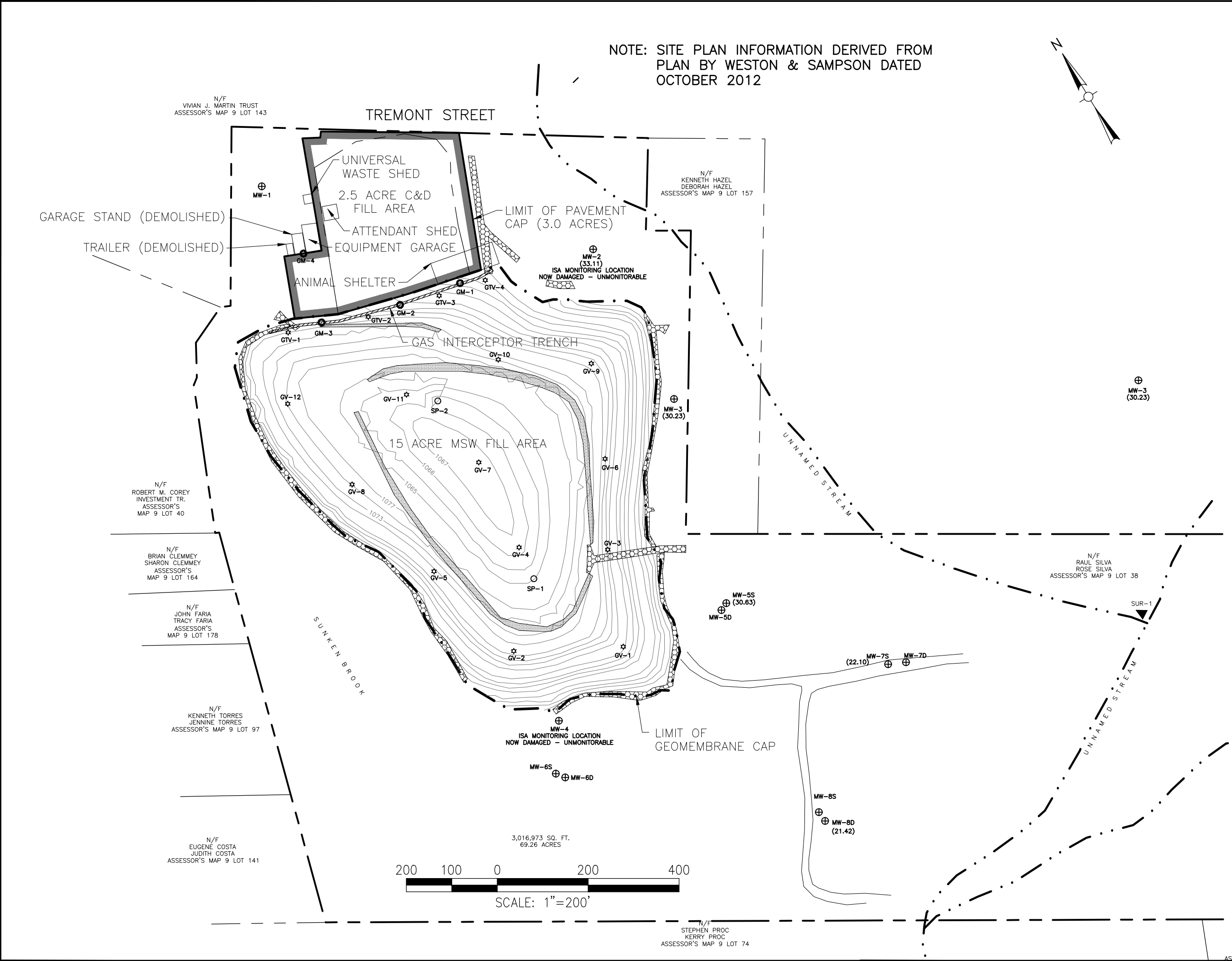


Laura A. Bugay, P.E.
Executive Vice President

cc: Elizabeth Moreira, Dighton Board of Health
Tom Ferry, Dighton DPW

POST-CLOSURE ENVIRONMENTAL MONITORING SITE PLAN





LEGEND

MW-2

SUR-1

GM-1

GV-1

GTV-1

SP-1

SURFACE WATER LOCATION

GAS MONITORING WELL

GAS TRENCH

GAS TRENCH VENT

SETTLEMENT PLATFORM

RIP RAP

DRAINAGE SWALE

STREAM

NOTES:

1.

The locations and dimensions are approximate. This plan is not meant to provide survey information.

2.

This plan is based on MassGIS MassMapper Online GIS maps.

Green Seal Environmental, LLC

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Sagamore Beach, MA 02562

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REVISIONS	
NO./ DATE	COMMENT

PROJECT:

LANDFILL & TRANSFER STATION MONITORING

SITE ADDRESS:

TREMONT STREET LANDFILL AND TRANSFER STATION

865 TREMONT ST.

DIGHTON, MA 02764

PREPARED FOR:

TOWN OF DIGHTON, MA

DRAWING TITLE:

GROUNDWATER MONITORING PLAN

ENGINEER:

LAB

CAD TECH:

MJW

CHECKED BY:

LAB

SCALE:

1" = 200'

DATE:	SHEET:
02/06/2024	APPENDIX A

SAMPLING RESULTS SUMMARY TABLES



Table 1
Tremont Street Landfill
Dighton, Massachusetts
Groundwater Sampling Summary - August 2024
Water Levels

Monitoring Well Number	Sample Date	Well Depth (feet)	PC ² (inches)	PVC Difference ³ (inches)	Depth to Groundwater ¹ (feet)
MW-1	8/22/2024	20.80	12.50	0.00	12.05
MW-3	8/22/2024	12.30	31.80	4.50	8.49
MW-5S	8/22/2024	12.40	45.50	2.50	9.20
MW-5D	8/22/2024	38.25	42.00	3.50	9.65
MW-6S	8/21/2024	11.41	32.50	3.00	8.95
MW-6D	8/21/2024	49.00	40.00	2.50	8.95
MW-7S ⁴	8/22/2024	18.75	28.00	2.00	0.60
MW-7D ⁴	8/22/2024	NM	NM	NM	NM
MW-8S	8/21/2024	20.90	29.00	2.50	7.90
MW-8D	8/21/2024	39.70	14.00	2.00	6.65

Notes:

- (1) Depth to water measured from top of PVC.
- (2) PC = Height of protective casing measured from the ground surface.
- (3) PVC Difference = Measured distance between the top of the PVC and the top of the protective casing.
- (4) Protective casing deteriorated from wet conditions.

NM = Not Measured

Table 2
Tremont Street Landfill
Dighton, Massachusetts
Groundwater Sampling Summary - August 2024
Metals, Field Parameters, and Indicator Parameters

Sample Location					MW-1	MW-3	MW-5S	MW-5D	MW-6S	DUP-1 ⁶	MW-6D	MW-7S	MW-7D ¹⁰	MW-8S ⁸	MW-8D ⁸
Laboratory ID					4H23013-01	4H23013-02	4H23013-03	4H23013-04	4H23013-05	4H23013-10	4H23013-06	4H23013-07	3I21013-03	4H23013-08	4H23013-09
Sample Date					8/22/2024	8/22/2024	8/22/2024	8/22/2024	8/21/2024	8/21/2024	8/21/2024	8/22/2024	8/22/2024	8/21/2024	8/21/2024
	Drinking Water Standards	GW-1 ⁹	GW-3 ⁹	Units											
Field Parameters															
Temperature	NL	NL	NL	°C	15.75	15.92	15.40	12.76	16.23		14.16	15.39	NS	14.17	13.44
pH	6.5-8.4 ^{3,5}	NL	NL	std. units	5.60	6.40	6.05	6.49	6.54		7.00	6.85	NS	6.45	6.61
Specific Conductivity	NL	NL	NL	ms/cm	0.074	0.561	0.061	0.683	0.133		0.42	0.611	NS	0.278	0.312
Dissolved Oxygen	NL	NL	NL	mg/L	4.10	5.74	6.22	6.32	4.71		4.43	6.10	NS	3.49	3.98
Indicator Parameters															
Alkalinity	NL	NL	NL	mg CaCO3/L	13	86	11	154	20	11	35	147	NS	NS	NS
COD (Chemical Oxygen Demand)	NL	NL	NL	mg/L	67	30	<20	24	<20	<20	<20	29	NS	NS	NS
Chloride	250 ^{3,5}	NL	NL	mg/L	10.10	132	7.94	81.8	10.4	11.7	17.4	65.6	NS	NS	NS
Cyanide, Total	0.2 ^{2,4}	0.2	NL	mg/L	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NS	NS	NS
Nitrate as N	NL	NL	NL	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NS	NS	NS
TDS (Total Dissolved Solids)	500 ^{3,5}	NL	NL	mg/L	12	456	12	312	120	48	112	276	NS	NS	NS
Sulfate	250 ^{3,5}	NL	NL	mg/L	9.39	69	2.46	20.3	7.76	8.20	40.3	6.16	NS	NS	NS
Dissolved Metals															
Arsenic	0.010 ^{2,4}	0.01	0.9	mg/L	<0.010	0.013	<0.010	0.015	<0.010	<0.010	<0.010	0.056	NS	NS	NS
Barium	2 ^{2,4}	2	50	mg/L	0.095	0.055	0.010	0.023	<0.005	<0.005	0.017	0.025	NS	NS	NS
Calcium	NL	NL	NL	mg/L	1.88	68.1	4.43	48.3	7.22	6.74	21.8	42.4	NS	NS	NS
Chromium	0.100 ^{2,4}	0.1	0.3	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NS	NS	NS
Copper	1 ^{3,5}	NL	NL	mg/L	<0.020	0.034	<0.020	0.020	<0.020	<0.020	<0.020	<0.020	NS	NS	NS
Iron	0.300 ^{3,5}	NL	NL	mg/L	0.093	25.8	<0.050	19.70	3.03	2.93	1.01	29.4	NS	NS	NS
Lead	0.015 ^{2,4}	0.015	NL	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NS	NS	NS
Manganese	0.050 ^{3,5}	NL	NL	mg/L	0.169	4.46	0.299	5.92	0.413	0.378	1.370	5.66	NS	NS	NS
Mercury	0.002 ^{2,4}	0.002	0.02	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NS	NS	NS
Selenium	0.050 ^{2,4}	0.05	0.1	mg/L	<0.010	<0.010	<0.010	0.012	<0.010	<0.010	<0.010	0.013	NS	NS	NS
Silver	0.100 ^{3,5}	0.1	0.007	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NS	NS	NS
Sodium	20 ³	NL	NL	mg/L	6.3	68.9	3.4	43.5	6.4	6.5	11.6	32.6	NS	NS	NS
Zinc	5 ^{3,5}	5	0.9	mg/L	0.048	0.057	0.023	0.027	0.036	0.032	0.023	0.022	NS	NS	NS

Notes:

- (1) Highlighted Areas: Concentration Equals or Exceeds Massachusetts or EPA Drinking Water Standards or Guidelines
- (2) Massachusetts Drinking Water Standard or Maximum Contaminant Level (MCL); Version Winter 2020
- (3) Massachusetts Office of Research and Standards Drinking Water Guideline (ORSG) Or Secondary Maximum Contaminant Level (SMCL); Version Winter 2020
- (4) EPA Primary Drinking Water Standard, as found at: <http://water.epa.gov/drink/contaminants/index.cfm>
- (5) EPA Secondary Drinking Water Standard, as found at: <http://water.epa.gov/drink/contaminants/index.cfm>
- (6) DUP-1 taken at MW-6S.
- (7) Initial and final readings were collected for field parameters; final readings are presented herein.
- (8) Per 2010 DEP-approved PCMMMP Revision, MW-8S and MW-8D are only required to be sampled for VOCs and 1,4-Dioxane.
- (9) Referenced MCP GW Standards Per 310 CMR 40.000, March 20, 2020.

Red values: Concentration Equals or Exceeds GW-1.

Cell outlined bold: Concentration Equals or Exceeds GW-3.

- (10) Groundwater monitoring well MW-7D is damaged and unable to be sampled.

<#.# Not detected to the limit indicated

NL: No Limit

NS: Not Sampled

NA: Not Analyzed

Table 3
Tremont Street Landfill
Dighton, Massachusetts
Groundwater Sampling Summary - August 2024
Volatile Organic Compounds

				Sample Location	MW-1	MW-3	MW-5S	MW-5D	MW-6S	DUP-1 ⁶	MW-6D	MW-7S	MW-7D ^{6D}	MW-8S	MW-8D
				Laboratory ID	4H23013-01	4H23013-02	4H23013-03	4H23013-04	4H23013-05	4H23013-10	4H23013-06	4H23013-07	3I21013-03	4H23013-08	4H23013-09
				Sample Date	8/22/2024	8/22/2024	8/22/2024	8/22/2024	8/21/2024	8/21/2024	8/21/2024	8/22/2024	8/22/2024	8/21/2024	8/21/2024
	Drinking Water Standards	GW-1 ⁴	GW-3 ⁵	Units											
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane	NL	5	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,1,1-Trichloroethane	200 ^{2,4}	200	20,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,1,2,2-Tetrachloroethane	NL	2	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,1,2-Trichloroethane	5 ^{2,4}	5	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,1-Dichloroethane	70 ³	70	20,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,1-Dichloroethene	7 ^{2,4}	7	30,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,1-Dichloropropene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,2,3-Trichlorobenzene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,2,3-Trichloropropane	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,2,4-Trichlorobenzene	70 ^{2,4}	70	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,2,4-Trimethylbenzene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,2-Dibromo-3-Chloropropane	0.2 ^{2,4}	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,2-Dibromoethane	0.02 ²	0.02	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,2-Dichlorobenzene	600 ^{2,4}	600	2,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,2-Dichloroethane	5 ^{2,4}	5	20,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,2-Dichloropropane	5 ^{2,4}	5	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,3,5-Trimethylbenzene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,3-Dichlorobenzene	NL	100	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,3-Dichloropropane	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,3-Dichloropropene (cis + trans)	NL	0.4	200	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	NS	<2	<2
1,4-Dichlorobenzene	5 ²	5	8,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
1,4-Dioxane	0.3 (2)	0.3	50,000	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	NS	<100	<100
2,2-Dichloropropane	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
2-Butanone	4,000 ³	4,000	50,000	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	NS	<100	<100
2-Chlorotoluene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
2-Hexanone	NL	NL	NL	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	NS	<100	<100
4-Chlorotoluene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
4-Methyl-2-Pentanone	350 ³	350	50,000	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	NS	<100	<100
Acetone	6,300 ²	6,300	50,000	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	NS	<100	<100
Benzene	5 ^{2,4}	5	10,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Bromobenzene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Bromochloromethane	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Bromodichloromethane	NL	3	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Bromoform	NL	4	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Bromomethane	10 ³	10	800	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Carbon Disulfide	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Carbon Tetrachloride	5 ^{2,4}	5	5,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Chlorobenzene	100 ^{2,4}	100	1,000	ug/L	<1	2	<1	3	<1	<1	<1	2	NS	<1	<1
Chloroethane	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Chloroform	70 ³	70	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Chloromethane	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
cis 1,2-Dichloroethene	70 ^{2,4}	70	50,000	ug/L	<1	28	<1	3	<1	<1	<1	2	NS	<1	<1
cis 1,3-Dichloropropene	0.4 ³	0.4	200	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Dibromochloromethane	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Dibromomethane	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Dichlorodifluoromethane	1,400 ³	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Diethyl ether	NL	NL	NL	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	NS	<5	<5
Diisopropyl ether	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Ethyl tert-butyl ether	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Ethylbenzene	700 ^{2,4}	700	5,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Hexachlorobutadiene	NL	0.6	3,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Isopropylbenzene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Methyl Tert-Butyl Ether	70 ³	70	50,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Methylene Chloride	5 ^{2,4}	5	50,000	ug/L	<1	<1	<1	<1	<5	<5	<1	<1	NS	<1	<1
n-Butylbenzene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
n-Propylbenzene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Naphthalene	140 ³	140	20,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
p-Xylene	10,000 (total) ^{2,4}	10,000 (total)	5,000 (total)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
p-Isopropyltoluene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
m- and p-Xylenes	10,000 (total) ^{2,4}	10,000 (total)	5,000 (total)	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	NS	<2	<2
sec-Butylbenzene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Styrene	100 ^{2,4}	100	6,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
tert-Amyl Alcohol	NL	NL	NL	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	NS	<5	<5
tert-Amyl methyl ether	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
tert-Butyl alcohol	NL	NL	NL	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	NS	<5	<5
tert-Butylbenzene	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Tetrachloroethene	5 ^{2,4}	5	30,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Tetrahydrofuran	600 ³	NL	NL	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	NS	<5	<5
Toluene	1,000 ^{2,4}	1,000	40,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
trans-1,2-Dichloroethene	100 ^{2,4}	10,000	5,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
trans-1,3-Dichloropropene	0.4 ³	0.4	200	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Trichloroethene	5 ^{2,4}	5	5,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Trichlorofluoromethane	NL	NL	NL	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Vinyl Chloride	2 ^{2,4}	2	50,000	ug/L	<1	66	<1	10	<1	<1	<1	6	NS	<1	<1
Xylenes, Total	10,000 ^{2,4}	10,000	5,000	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	NS	<1	<1
Semi-Volatile Organic Compounds															
1,4-Dioxane	0.3 ³	0.3	50,000	ug/L	<0.200	<0.200	<0.200	0.490	<0.200	<0.200	<0.200	0.260	NS	0.550	0.800

Notes:

- (1) Highlighted Areas: Concentration Equals or Exceeds Massachusetts or EPA Drinking Water Standards or Guidelines
- (2) Massachusetts Drinking Water Standard or Maximum Contaminant Level (MCL); Version Winter 2020
- (3) Massachusetts Office of research and Standards Drinking Water Guideline (ORSWG) Or Secondary Maximum Contaminant Level (SMCL); Version Winter 2020
- (4) EPA Primary Drinking Water Standard, as found at: <http://water.epa.gov/drink/contaminants/index.cfm>
- (5) EPA Secondary Drinking Water Standard, as found at: <http://water.epa.gov/drink/contaminants/index.cfm>
- (6) DUP-1 taken at MW-6S
- (7) **BOLD** values indicate a detection of a compound above laboratory reporting limits, but does not indicate an exceedance of applicable standards.
- (8) GW-1 and GW-3 per Massachusetts Contingency Plan (MCP, 310 CMR 40.000, March 20, 2020) Method 1
- (9) **Red** values: Concentration Equals or Exceeds GW-1. Cell outlined bold: Concentration Equals or Exceeds GW-3.
- (10) Groundwater monitoring well MW-7D is damaged and unable to be sampled.

<# # Not detected to the limit indicated

NL: No Limit

NS: Not Sampled

Table 4
Tremont Street Landfill
Dighton, Massachusetts
Surface Water Sampling Summary - August 2024
Metals, Field Parameters, and Indicator Parameters

Sample Location			SUR-1
Laboratory ID			4H23013-11
Sample Date			8/22/2024
	NRWQC ^{2,3}	Units	
Field Parameters			
Temperature	NL	°C	17.64
pH	6.5-9	std. units	7.65
Specific Conductivity	NL	ms/cm	0.292
Dissolved Oxygen	NL	mg/L	7.82
Indicator Parameters			
Alkalinity ⁶	20	mg CaCO ₃ /L	20
COD (Chemical Oxygen Demand)	NL	mg/L	<20
Chloride	230	mg/L	62.3
Cyanide, Total	0.0052	mg/L	<0.01
Nitrate as N	NL	mg/L	1.50
TDS (Total Dissolved Solids)	NL	mg/L	136
Sulfate	NL	mg/L	6.42
Measured Hardness	NL	mg/L	47.7
Total Metals			
Arsenic	0.15	mg/L	<0.010
Barium	NL	mg/L	0.012
Cadmium	0.00015 ⁴	mg/L	<0.005
Calcium	NL	mg/L	13.9
Chromium	0.074 ⁵	mg/L	<0.005
Copper	0.00476 ⁴	mg/L	<0.02
Iron	1	mg/L	0.47
Lead	0.00111 ⁴	mg/L	<0.005
Manganese	NL	mg/L	0.046
Mercury	0.00077	mg/L	<0.0005
Selenium	0.005	mg/L	<0.01
Silver	0.0009 ⁴	mg/L	<0.005
Sodium	NL	mg/L	36.3
Zinc	0.0631 ⁴	mg/L	0.024

Notes:

- (1) Highlighted Areas: Concentration Equals or Exceeds NRWQC
- (2) NRWQC: National Recommended Water Quality Criteria for Freshwater Based Surface Water, Version 2009
- (3) Criterion continuous concentrations (CCC) values are compared to unless none are available, Criterion Maximum Concentrations (CMC) values are used
- (4) This NRWQC is hardness dependent and is calculated based upon the equations and factors presented in Appendix B of the NRWQC Guidance Document. See Table 4A for the individual hardness dependent criteria for the sampling location.
- (5) The NRWQC has established hardness dependant criteria for Chromium III and Chromium VI. Chromium results represent total Chromium however, total Chromium is generally assumed to be representative of Chromium III, therefore the total Chromium results are compared to the Chromium III NRWQC.
- (6) The NRWQC for Alkalinity is a minimum standard.

<#.# Not detected to the limit indicated

NL: No Limit

NS: Not Sampled

NA: Not Analyzed

Table 4A
Tremont Street Landfill
Dighton, Massachusetts
Surface Water Sampling Summary - August 2024
Calculated NRWQC for Hardness Dependent Metals

Surface Water Sampling Location	August 2024 Measured Hardness (mg/L)	August 2024 Cadmium Result (mg/L)	Calculated Cadmium Criteria (mg/L)	August 2024 Lead Result (mg/L)	Calculated Lead Criteria (mg/L)	August 2024 Copper Result (mg/L)	Calculated Copper Criteria (mg/L)	August 2024 Silver Result (mg/L)	Calculated Silver Criteria (mg/L)	August 2024 Zinc Result (mg/L)	Calculated Zinc Criteria (mg/L)
SUR-1	47.7	<0.005	0.00015	<0.005	0.00111	<0.02	0.00476	<0.005	0.00090	<0.020	0.06310

Notes:

- (1) Hardness dependent metals require the NRWQC Standard to be calculated if the sample hardness differs from 100 mg/L.
Criteria are calculated according to the equations and factors presented in Appendix B of the NRWQC Guidance Document dated 2009.
- (2) Highlighted areas: Concentration equals or exceeds calculated hardness dependent NRWQC.

<#. # Not detected to the limit indicated

Table 5
Tremont Street Landfill
Dighton, Massachusetts
Surface Water Sampling Summary - August 2024
Volatile Organic Compounds

		Sample Location	SUR-1
		Laboratory ID	4H23013-11
		Sample Date	8/22/2024
	NRWQC ²	Units ³	
<i>Volatile Organic Compounds</i>			
1,1,1,2-Tetrachloroethane	NL	ug/L	<1
1,1,1-Trichloroethane	200 ^{2,4}	ug/L	<1
1,1,2,2-Tetrachloroethane	NL	ug/L	<1
1,1,2-Trichloroethane	5 ^{2,4}	ug/L	<1
1,1-Dichloroethane	70 ³	ug/L	<1
1,1-Dichloroethene	7 ^{2,4}	ug/L	<1
1,1-Dichloropropene	NL	ug/L	<1
1,2,3- Trichlorobenzene	NL	ug/L	<1
1,2,3-Trichloropropane	NL	ug/L	<1
1,2,4-Trichlorobenzene	70 ^{2,4}	ug/L	<1
1,2,4-Trimethylbenzene	NL	ug/L	<1
1,2- Dibromo-3-Chloropropane	0.2 ^{2,4}	ug/L	<1
1,2-Dibromoethane	0.02 ²	ug/L	<1
1,2-Dichlorobenzene	600 ^{2,4}	ug/L	<1
1,2-Dichloroethane	5 ^{2,4}	ug/L	<1
1,2-Dichloropropane	5 ^{2,4}	ug/L	<1
1,3,5-Trimethylbenzene	NL	ug/L	<1
1,3-Dichlorobenzene	NL	ug/L	<1
1,3-Dichloropropane	NL	ug/L	<1
1,3-Dichloropropene (cis + trans)	NL	ug/L	<2
1,4-Dichlorobenzene	5 ²	ug/L	<1
1,4-Dioxane	0.3 ²	ug/L	<100
2,2-Dichloropropane	NL	ug/L	<1
2-Butanone	4,000 ³	ug/L	<100
2-Chlorotoluene	NL	ug/L	<1
2-Hexanone	NL	ug/L	<100
4-Chlorotoluene	NL	ug/L	<1
4-Methyl-2-Pentanone	350 ³	ug/L	<100
Acetone	6,300 ³	ug/L	<100
Benzene	5 ^{2,4}	ug/L	<1
Bromobenzene	NL	ug/L	<1
Bromochloromethane	NL	ug/L	<1
Bromodichloromethane	NL	ug/L	<1
Bromoform	NL	ug/L	<1
Bromomethane	10 ³	ug/L	<1
Carbon Disulfide	NL	ug/L	<1
Carbon Tetrachloride	5 ^{2,4}	ug/L	<1
Chlorobenzene	100 ^{2,4}	ug/L	<1
Chloroethane	NL	ug/L	<1
Chloroform	70 ³	ug/L	<1
Chloromethane	NL	ug/L	<1
cis 1,2-Dichloroethene	70 ^{2,4}	ug/L	<1
cis 1,3-Dichloropropene	0.4 ³	ug/L	<1
Dibromochloromethane	NL	ug/L	<1
Dibromomethane	NL	ug/L	<1
Dichlorodifluoromethane	1,400 ³	ug/L	<1
Diethyl ether	NL	ug/L	<5
Diisopropyl ether	NL	ug/L	<1
Ethyl tert-butyl ether	NL	ug/L	<1
Ethylbenzene	700 ^{2,4}	ug/L	<1
Hexachlorobutadiene	NL	ug/L	<1
Isopropylbenzene	NL	ug/L	<1
Methyl Tert-Butyl Ether	70 ³	ug/L	<1
Methylene Chloride	5 ^{2,4}	ug/L	<1
n-Butylbenzene	NL	ug/L	<1
n-Propylbenzene	NL	ug/L	<1
Naphthalene	140 ³	ug/L	<1
o-Xylene	10,000 (total) ^{2,4}	ug/L	<1
p-Isopropyltoluene	NL	ug/L	<1
m- and p-Xylenes	10,000 (total) ^{2,4}	ug/L	<2
sec-Butylbenzene	NL	ug/L	<1
Styrene	100 ^{2,4}	ug/L	<1
tert-Amyl Alcohol	NL	ug/L	<5
tert-Amyl methyl ether	NL	ug/L	<1
tert-Butyl alcohol	NL	ug/L	<5
tert-Butylbenzene	NL	ug/L	<1
Tetrachloroethene	5 ^{2,4}	ug/L	<1
Tetrahydrofuran	600 ³	ug/L	<5
Toluene	1,000 ^{2,4}	ug/L	<1
trans-1,2-Dichloroethene	100 ^{2,4}	ug/L	<1
trans-1,3-Dichloropropene	0.4 ³	ug/L	<1
Trichloroethene	5 ^{2,4}	ug/L	<1
Trichlorofluoromethane	NL	ug/L	<1
Vinyl Chloride	2 ^{2,4}	ug/L	<1
Xylenes, Total	10,000 ^{2,4}	ug/L	<1
<i>Semi-Volatile Organic Compounds</i>			
1,4-Dioxane	0.3 ³	ug/L	<0.200

Notes:

(1) Highlighted Areas: Concentration Equals or Exceeds NRWQC

(2) NRWQC: National Recommended Water Quality Criteria for Freshwater Based Surface Water, Version 2009

(3) Criterion continuous concentrations (CCC)

(4) **BOLD** values indicate a detection of a compound above laboratory reporting limits, but does not indicate an exceedence of applicable standards.

<#. # Not detected to the limit indicated

NL: No Limit

Table 6
Tremont Street Landfill
Dighton, Massachusetts
Landfill Gas Sampling Summary - August 2024

Gas Monitoring Locations	Type	Date	CH ₄ (% by vol.)		LEL (%)		VOCs (ppmv)		H ₂ S (ppmv)		CO ₂ (%)		O ₂ (%)		Barometric Pressure (in. Hg)
			Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	
Background	Ambient	8/23/2024	0.1		2		0.0		0		0.1		20.3		30.31
Landfill Gas Monitoring Wells															
GM-1	Probe	8/23/2024	0.0	0.0	0	0	0.0	0.0	0	0	6.9	0.0	9.1	19.0	30.31
GM-2	Probe	8/23/2024	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	19.4	19.2	30.31
GM-3	Probe	8/23/2024	0.0	0.1	0	2	0.0	0.0	3	0	2.6	0.1	15.6	19.4	30.31
GM-4 ⁴	Probe	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ambient Air															
Equipment Garage	Ambient	8/23/2024	0.1		2		0.0		0		0.0		19.7		30.31
Animal Shelter	Ambient	8/23/2024	0.0		2		0.0		0		0.1		18.8		30.31
Attendant Booth	Ambient	8/23/2024	0.1		2		0.0		0		0.0		19.9		30.31
Universal Waste Shed	Ambient	8/23/2024	0.1		2		0.0		0		0.0		20.1		30.31

Notes:

- (1) Monitoring locations were purged with a Gilian GilAir Plus Pump for approximately 5 minutes unless concentrations stabilized in less time before final readings were recorded.
- (2) Methane, oxygen, carbon dioxide, and hydrogen sulfide measured with Landtec GEM 5000 combustible gas meter.
- (3) Volatile Organic Compounds (VOCs) measured with a MiniRae 3000 Photo-ionization Detector (PID), lamp eV 10.6.
- (4) GM-4 was destroyed when the adjacent "Garage Stand" building was demolished.

NS: Not Sampled

LEL: Lower Explosive Limit

ppmv: parts per million by volume

in. Hg: inches of Mercury

LABORATORY REPORTS AND CHAINS OF CUSTODY





New England Testing Laboratory, Inc.
(401) 353-3420

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 4H23013
Client Project: DITN - 2024 - Dighton, MA

Report Date: 10-September-2024

Prepared for:

Victoria Costa
Green Seal Environmental, Inc.
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Sagamore Beach, MA 02562

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Samples Submitted :

The samples listed below were submitted to New England Testing Laboratory on 08/23/24. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 4H23013. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
4H23013-01	MW-1	Water	08/22/2024	08/23/2024
4H23013-02	MW-3	Water	08/22/2024	08/23/2024
4H23013-03	MW-5S	Water	08/22/2024	08/23/2024
4H23013-04	MW-5D	Water	08/22/2024	08/23/2024
4H23013-05	MW-6S	Water	08/21/2024	08/23/2024
4H23013-06	MW-6D	Water	08/21/2024	08/23/2024
4H23013-07	MW-7S	Water	08/21/2024	08/23/2024
4H23013-08	MW-8S	Water	08/21/2024	08/23/2024
4H23013-09	MW-8D	Water	08/21/2024	08/23/2024
4H23013-10	DUP-1	Water	08/21/2024	08/23/2024
4H23013-11	SUR-1	Water	08/22/2024	08/23/2024
4H23013-12	TB-1	Water	08/22/2024	08/23/2024

Request for Analysis

At the client's request, the analyses presented in the following table were performed on the samples submitted.

DUP-1 (Lab Number: 4H23013-10)

	<u>Method</u>
8270D Sim - 1,4-Dioxane	EPA 8270E-SIM
Alkalinity (CaCO ₃)	SM2320-B (11)
Chloride	EPA 300.0
COD	SM5220-D (11)
Cyanide	SM4500-CN-E (11)
Dissolved Arsenic, Filtered in Field	EPA 6010C
Dissolved Barium, Filtered in Field	EPA 6010C
Dissolved Calcium, Filtered in Field	EPA 6010C
Dissolved Chromium, Filtered in Field	EPA 6010C
Dissolved Copper, Filtered in Field	EPA 6010C
Dissolved Iron, Filtered in Field	EPA 6010C
Dissolved Lead, Filtered in Field	EPA 6010C
Dissolved Manganese, Filtered in Field	EPA 6010C
Dissolved Mercury, Filtered in	EPA 7470A
Dissolved Selenium, Filtered in Field	EPA 6010C
Dissolved Silver, Filtered in Field	EPA 6010C
Dissolved Sodium, Filtered in Field	EPA 6010C
Dissolved Zinc, Filtered in Field	EPA 6010C
Nitrate	EPA 300.0
Sulfate	EPA 300.0
Total Dissolved Solids	SM2540-C (11)
Volatile Organic Compounds	EPA 8260D

MW-1 (Lab Number: 4H23013-01)

	<u>Method</u>
8270D Sim - 1,4-Dioxane	EPA 8270E-SIM
Alkalinity (CaCO ₃)	SM2320-B (11)
Chloride	EPA 300.0
COD	SM5220-D (11)
Cyanide	SM4500-CN-E (11)
Dissolved Arsenic, Filtered in Field	EPA 6010C
Dissolved Barium, Filtered in Field	EPA 6010C
Dissolved Calcium, Filtered in Field	EPA 6010C
Dissolved Chromium, Filtered in Field	EPA 6010C
Dissolved Copper, Filtered in Field	EPA 6010C
Dissolved Iron, Filtered in Field	EPA 6010C
Dissolved Lead, Filtered in Field	EPA 6010C
Dissolved Manganese, Filtered in Field	EPA 6010C
Dissolved Mercury, Filtered in	EPA 7470A
Dissolved Selenium, Filtered in Field	EPA 6010C
Dissolved Silver, Filtered in Field	EPA 6010C
Dissolved Sodium, Filtered in Field	EPA 6010C
Dissolved Zinc, Filtered in Field	EPA 6010C
Nitrate	EPA 300.0
Sulfate	EPA 300.0
Total Dissolved Solids	SM2540-C (11)
Volatile Organic Compounds	EPA 8260D

Request for Analysis (continued)

MW-3 (Lab Number: 4H23013-02)

8270D Sim - 1,4-Dioxane
Alkalinity (CaCO₃)
Chloride
COD
Cyanide
Dissolved Arsenic, Filtered in Field
Dissolved Barium, Filtered in Field
Dissolved Calcium, Filtered in Field
Dissolved Chromium, Filtered in Field
Dissolved Copper, Filtered in Field
Dissolved Iron, Filtered in Field
Dissolved Lead, Filtered in Field
Dissolved Manganese, Filtered in Field
Dissolved Mercury, Filtered in
Dissolved Selenium, Filtered in Field
Dissolved Silver, Filtered in Field
Dissolved Sodium, Filtered in Field
Dissolved Zinc, Filtered in Field
Nitrate
Sulfate
Total Dissolved Solids
Volatile Organic Compounds

Method

EPA 8270E-SIM
SM2320-B (11)
EPA 300.0
SM5220-D (11)
SM4500-CN-E (11)
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 7470A
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 300.0
EPA 300.0
SM2540-C (11)
EPA 8260D

MW-5D (Lab Number: 4H23013-04)

8270D Sim - 1,4-Dioxane
Alkalinity (CaCO₃)
Chloride
COD
Cyanide
Dissolved Arsenic, Filtered in Field
Dissolved Barium, Filtered in Field
Dissolved Calcium, Filtered in Field
Dissolved Chromium, Filtered in Field
Dissolved Copper, Filtered in Field
Dissolved Iron, Filtered in Field
Dissolved Lead, Filtered in Field
Dissolved Manganese, Filtered in Field
Dissolved Mercury, Filtered in
Dissolved Selenium, Filtered in Field
Dissolved Silver, Filtered in Field
Dissolved Sodium, Filtered in Field
Dissolved Zinc, Filtered in Field
Nitrate
Sulfate
Total Dissolved Solids
Volatile Organic Compounds

Method

EPA 8270E-SIM
SM2320-B (11)
EPA 300.0
SM5220-D (11)
SM4500-CN-E (11)
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 7470A
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 300.0
EPA 300.0
SM2540-C (11)
EPA 8260D

Request for Analysis (continued)

MW-5S (Lab Number: 4H23013-03)

8270D Sim - 1,4-Dioxane
Alkalinity (CaCO₃)
Chloride
COD
Cyanide
Dissolved Arsenic, Filtered in Field
Dissolved Barium, Filtered in Field
Dissolved Calcium, Filtered in Field
Dissolved Chromium, Filtered in Field
Dissolved Copper, Filtered in Field
Dissolved Iron, Filtered in Field
Dissolved Lead, Filtered in Field
Dissolved Manganese, Filtered in Field
Dissolved Mercury, Filtered in
Dissolved Selenium, Filtered in Field
Dissolved Silver, Filtered in Field
Dissolved Sodium, Filtered in Field
Dissolved Zinc, Filtered in Field
Nitrate
Sulfate
Total Dissolved Solids
Volatile Organic Compounds

Method

EPA 8270E-SIM
SM2320-B (11)
EPA 300.0
SM5220-D (11)
SM4500-CN-E (11)
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 7470A
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 300.0
EPA 300.0
SM2540-C (11)
EPA 8260D

MW-6D (Lab Number: 4H23013-06)

8270D Sim - 1,4-Dioxane
Alkalinity (CaCO₃)
Chloride
COD
Cyanide
Dissolved Arsenic, Filtered in Field
Dissolved Barium, Filtered in Field
Dissolved Calcium, Filtered in Field
Dissolved Chromium, Filtered in Field
Dissolved Copper, Filtered in Field
Dissolved Iron, Filtered in Field
Dissolved Lead, Filtered in Field
Dissolved Manganese, Filtered in Field
Dissolved Mercury, Filtered in
Dissolved Selenium, Filtered in Field
Dissolved Silver, Filtered in Field
Dissolved Sodium, Filtered in Field
Dissolved Zinc, Filtered in Field
Nitrate
Sulfate
Total Dissolved Solids
Volatile Organic Compounds

Method

EPA 8270E-SIM
SM2320-B (11)
EPA 300.0
SM5220-D (11)
SM4500-CN-E (11)
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 7470A
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 300.0
EPA 300.0
SM2540-C (11)
EPA 8260D

Request for Analysis (continued)

MW-6S (Lab Number: 4H23013-05)

8270D Sim - 1,4-Dioxane
Alkalinity (CaCO₃)
Chloride
COD
Cyanide
Dissolved Arsenic, Filtered in Field
Dissolved Barium, Filtered in Field
Dissolved Calcium, Filtered in Field
Dissolved Chromium, Filtered in Field
Dissolved Copper, Filtered in Field
Dissolved Iron, Filtered in Field
Dissolved Lead, Filtered in Field
Dissolved Manganese, Filtered in Field
Dissolved Mercury, Filtered in
Dissolved Selenium, Filtered in Field
Dissolved Silver, Filtered in Field
Dissolved Sodium, Filtered in Field
Dissolved Zinc, Filtered in Field
Nitrate
Sulfate
Total Dissolved Solids
Volatile Organic Compounds

Method

EPA 8270E-SIM
SM2320-B (11)
EPA 300.0
SM5220-D (11)
SM4500-CN-E (11)
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 7470A
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 300.0
EPA 300.0
SM2540-C (11)
EPA 8260D

MW-7S (Lab Number: 4H23013-07)

8270D Sim - 1,4-Dioxane
Alkalinity (CaCO₃)
Chloride
COD
Cyanide
Dissolved Arsenic, Filtered in Field
Dissolved Barium, Filtered in Field
Dissolved Calcium, Filtered in Field
Dissolved Chromium, Filtered in Field
Dissolved Copper, Filtered in Field
Dissolved Iron, Filtered in Field
Dissolved Lead, Filtered in Field
Dissolved Manganese, Filtered in Field
Dissolved Mercury, Filtered in
Dissolved Selenium, Filtered in Field
Dissolved Silver, Filtered in Field
Dissolved Sodium, Filtered in Field
Dissolved Zinc, Filtered in Field
Nitrate
Sulfate
Total Dissolved Solids
Volatile Organic Compounds

Method

EPA 8270E-SIM
SM2320-B (11)
EPA 300.0
SM5220-D (11)
SM4500-CN-E (11)
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 7470A
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 300.0
EPA 300.0
SM2540-C (11)
EPA 8260D

MW-8D (Lab Number: 4H23013-09)

8270D Sim - 1,4-Dioxane
Volatile Organic Compounds

Method

EPA 8270E-SIM
EPA 8260D

Request for Analysis (continued)

MW-8S (Lab Number: 4H23013-08)

8270D Sim - 1,4-Dioxane
Volatile Organic Compounds

Method

EPA 8270E-SIM
EPA 8260D

SUR-1 (Lab Number: 4H23013-11)

8270D Sim - 1,4-Dioxane
Alkalinity (CaCO₃)
Arsenic
Barium
Calcium
Chloride
Chromium
COD
Copper
Cyanide
Hardness
Iron
Lead
Magnesium
Manganese
Mercury
Nitrate
Selenium
Silver
Sodium
Sulfate
Total Dissolved Solids
Volatile Organic Compounds
Zinc

Method

EPA 8270E-SIM
SM2320-B (11)
EPA 6010C
EPA 6010C
EPA 6010C
EPA 300.0
EPA 6010C
SM5220-D (11)
EPA 6010C
SM4500-CN-E (11)
SM2340-B (11)
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 7470A
EPA 300.0
EPA 6010C
EPA 6010C
EPA 6010C
EPA 300.0
SM2540-C (11)
EPA 8260D
EPA 6010C

TB-1 (Lab Number: 4H23013-12)

Volatile Organic Compounds

Method

EPA 8260D

Method References

Standard Methods for the Examination of Water and Wastewater, 20th Edition, APHA/ AWWA-WPCF, 1998

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA

Case Narrative

Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions: None

Results: General Chemistry

Sample: MW-1
Lab Number: 4H23013-01 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Alkalinity as CaCO3	13		2	mg/L	08/27/24	08/27/24
COD	67		20	mg/L	09/03/24	09/03/24
Cyanide	ND		0.01	mg/L	08/27/24	08/27/24
Chloride	10.1		0.25	mg/L	08/23/24	08/23/24
Nitrate as N	ND		0.25	mg/L	08/23/24 17:00	08/23/24 17:00
Sulfate	9.39		0.25	mg/L	08/23/24	08/23/24
Total Dissolved Solids	12		10	mg/L	08/29/24	08/29/24

Results: General Chemistry

Sample: MW-3
Lab Number: 4H23013-02 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Alkalinity as CaCO3	86		2	mg/L	08/27/24	08/27/24
COD	30		20	mg/L	09/03/24	09/03/24
Cyanide	0.01		0.01	mg/L	08/26/24	08/26/24
Chloride	132		2.50	mg/L	08/26/24	08/26/24
Nitrate as N	ND		0.25	mg/L	08/23/24 17:12	08/23/24 17:12
Sulfate	69.0		2.50	mg/L	08/26/24	08/26/24
Total Dissolved Solids	456		10	mg/L	08/29/24	08/29/24

Results: General Chemistry

Sample: MW-5S
Lab Number: 4H23013-03 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Alkalinity as CaCO3	11		2	mg/L	08/27/24	08/27/24
COD	ND		20	mg/L	09/03/24	09/03/24
Cyanide	ND		0.01	mg/L	08/27/24	08/27/24
Chloride	7.94		0.25	mg/L	08/23/24	08/23/24
Nitrate as N	ND		0.25	mg/L	08/23/24 17:23	08/23/24 17:23
Sulfate	2.46		0.25	mg/L	08/23/24	08/23/24
Total Dissolved Solids	12		10	mg/L	08/29/24	08/29/24

Results: General Chemistry

Sample: MW-5D
Lab Number: 4H23013-04 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Alkalinity as CaCO3	154		2	mg/L	08/27/24	08/27/24
COD	24		20	mg/L	09/03/24	09/03/24
Cyanide	ND		0.01	mg/L	08/27/24	08/27/24
Chloride	81.8		1.25	mg/L	08/26/24	08/26/24
Nitrate as N	ND		0.25	mg/L	08/23/24 17:35	08/23/24 17:35
Sulfate	20.3		1.25	mg/L	08/26/24	08/26/24
Total Dissolved Solids	312		10	mg/L	08/29/24	08/29/24

Results: General Chemistry

Sample: MW-6S
Lab Number: 4H23013-05 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Alkalinity as CaCO3	20		2	mg/L	08/27/24	08/27/24
COD	ND		20	mg/L	09/03/24	09/03/24
Cyanide	ND		0.01	mg/L	08/27/24	08/27/24
Chloride	10.4		0.25	mg/L	08/23/24	08/23/24
Nitrate as N	ND		0.25	mg/L	08/23/24 17:47	08/23/24 17:47
Sulfate	7.76		0.25	mg/L	08/23/24	08/23/24
Total Dissolved Solids	120		10	mg/L	08/29/24	08/29/24

Results: General Chemistry

Sample: MW-6D
Lab Number: 4H23013-06 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Alkalinity as CaCO3	35		2	mg/L	08/27/24	08/27/24
COD	ND		20	mg/L	09/03/24	09/03/24
Cyanide	ND		0.01	mg/L	08/27/24	08/27/24
Chloride	17.4		0.25	mg/L	08/23/24	08/23/24
Nitrate as N	ND		0.25	mg/L	08/23/24 17:59	08/23/24 17:59
Sulfate	40.3		2.50	mg/L	08/26/24	08/26/24
Total Dissolved Solids	112		10	mg/L	08/29/24	08/29/24

Results: General Chemistry

Sample: MW-7S
Lab Number: 4H23013-07 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Alkalinity as CaCO3	147		2	mg/L	08/27/24	08/27/24
COD	29		20	mg/L	09/03/24	09/03/24
Cyanide	ND		0.01	mg/L	08/27/24	08/27/24
Chloride	65.6		1.25	mg/L	08/26/24	08/26/24
Nitrate as N	ND		0.25	mg/L	08/23/24 18:11	08/23/24 18:11
Sulfate	6.16		0.25	mg/L	08/23/24	08/23/24
Total Dissolved Solids	276		10	mg/L	08/29/24	08/29/24

Results: General Chemistry

Sample: DUP-1
Lab Number: 4H23013-10 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Alkalinity as CaCO3	11		2	mg/L	08/27/24	08/27/24
COD	ND		20	mg/L	09/03/24	09/03/24
Cyanide	ND		0.01	mg/L	08/27/24	08/27/24
Chloride	11.7		0.25	mg/L	08/23/24	08/23/24
Nitrate as N	ND		0.25	mg/L	08/23/24 18:22	08/23/24 18:22
Sulfate	8.20		0.25	mg/L	08/23/24	08/23/24
Total Dissolved Solids	48		10	mg/L	08/29/24	08/29/24

Results: General Chemistry

Sample: SUR-1
Lab Number: 4H23013-11 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Alkalinity as CaCO3	20		2	mg/L	08/27/24	08/27/24
COD	ND		20	mg/L	09/03/24	09/03/24
Cyanide	ND		0.01	mg/L	08/27/24	08/27/24
Chloride	62.3		1.25	mg/L	08/26/24	08/26/24
Nitrate as N	1.50		0.25	mg/L	08/23/24 18:34	08/23/24 18:34
Sulfate	6.42		0.25	mg/L	08/23/24	08/23/24
Total Dissolved Solids	136		10	mg/L	08/29/24	08/29/24

Results: Total Metals

Sample: SUR-1

Lab Number: 4H23013-11 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Arsenic	ND		0.01	mg/L	08/26/24	08/27/24
Barium	0.012		0.005	mg/L	08/26/24	08/27/24
Chromium	ND		0.005	mg/L	08/26/24	08/27/24
Copper	ND		0.02	mg/L	08/26/24	08/27/24
Hardness as CaCO3	47.7		0.33	mg/L	08/26/24	09/03/24
Iron	0.47		0.05	mg/L	08/26/24	08/27/24
Lead	ND		0.005	mg/L	08/26/24	08/27/24
Magnesium	3.16		0.05	mg/L	08/26/24	08/27/24
Manganese	0.046		0.005	mg/L	08/26/24	08/27/24
Mercury	ND		0.0005	mg/L	08/26/24	08/27/24
Selenium	ND		0.01	mg/L	08/26/24	08/27/24
Silver	ND		0.005	mg/L	08/26/24	08/27/24
Zinc	0.024		0.020	mg/L	08/26/24	08/27/24
Calcium	13.9		0.05	mg/L	08/26/24	08/27/24
Sodium	36.3		2.0	mg/L	08/26/24	08/27/24

Results: Dissolved Metals

Sample: MW-1

Lab Number: 4H23013-01 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Arsenic	ND		0.010	mg/L	08/27/24	08/27/24
Barium	0.095		0.005	mg/L	08/27/24	08/27/24
Chromium	ND		0.005	mg/L	08/27/24	08/27/24
Copper	ND		0.020	mg/L	08/27/24	08/27/24
Iron	0.093		0.050	mg/L	08/27/24	08/27/24
Lead	ND		0.005	mg/L	08/27/24	08/27/24
Manganese	0.169		0.005	mg/L	08/27/24	08/27/24
Mercury	ND		0.0005	mg/L	08/26/24	08/27/24
Selenium	ND		0.010	mg/L	08/27/24	08/27/24
Silver	ND		0.005	mg/L	08/27/24	08/27/24
Zinc	0.048		0.020	mg/L	08/27/24	08/27/24
Calcium	1.88		0.050	mg/L	08/27/24	08/27/24
Sodium	6.3		2.0	mg/L	08/27/24	08/27/24

Results: Dissolved Metals**Sample: MW-3****Lab Number: 4H23013-02 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Arsenic	0.013		0.010	mg/L	08/27/24	08/27/24
Barium	0.055		0.005	mg/L	08/27/24	08/27/24
Chromium	ND		0.005	mg/L	08/27/24	08/27/24
Copper	0.034		0.020	mg/L	08/27/24	08/27/24
Iron	25.8		0.050	mg/L	08/27/24	08/27/24
Lead	ND		0.005	mg/L	08/27/24	08/27/24
Manganese	4.46		0.005	mg/L	08/27/24	08/27/24
Mercury	ND		0.0005	mg/L	08/26/24	08/27/24
Selenium	0.017		0.010	mg/L	08/27/24	08/27/24
Silver	ND		0.005	mg/L	08/27/24	08/27/24
Zinc	0.057		0.020	mg/L	08/27/24	08/27/24
Calcium	68.1		0.050	mg/L	08/27/24	08/27/24
Sodium	68.9		2.0	mg/L	08/27/24	08/27/24

Results: Dissolved Metals

Sample: MW-5S

Lab Number: 4H23013-03 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Arsenic	ND		0.010	mg/L	08/27/24	08/27/24
Barium	0.010		0.005	mg/L	08/27/24	08/27/24
Chromium	ND		0.005	mg/L	08/27/24	08/27/24
Copper	ND		0.020	mg/L	08/27/24	08/27/24
Iron	ND		0.050	mg/L	08/27/24	08/27/24
Lead	ND		0.005	mg/L	08/27/24	08/27/24
Manganese	0.299		0.005	mg/L	08/27/24	08/27/24
Mercury	ND		0.0005	mg/L	08/26/24	08/27/24
Selenium	ND		0.010	mg/L	08/27/24	08/27/24
Silver	ND		0.005	mg/L	08/27/24	08/27/24
Zinc	0.023		0.020	mg/L	08/27/24	08/27/24
Calcium	4.43		0.050	mg/L	08/27/24	08/27/24
Sodium	3.4		2.0	mg/L	08/27/24	08/27/24

Results: Dissolved Metals**Sample: MW-5D****Lab Number: 4H23013-04 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Arsenic	0.015		0.010	mg/L	08/27/24	08/27/24
Barium	0.023		0.005	mg/L	08/27/24	08/27/24
Chromium	ND		0.005	mg/L	08/27/24	08/27/24
Copper	0.020		0.020	mg/L	08/27/24	08/27/24
Iron	19.7		0.050	mg/L	08/27/24	08/27/24
Lead	ND		0.005	mg/L	08/27/24	08/27/24
Manganese	5.92		0.005	mg/L	08/27/24	08/27/24
Mercury	ND		0.0005	mg/L	08/26/24	08/27/24
Selenium	0.012		0.010	mg/L	08/27/24	08/27/24
Silver	ND		0.005	mg/L	08/27/24	08/27/24
Zinc	0.027		0.020	mg/L	08/27/24	08/27/24
Calcium	48.3		0.050	mg/L	08/27/24	08/27/24
Sodium	43.5		2.0	mg/L	08/27/24	08/27/24

Results: Dissolved Metals

Sample: MW-6S

Lab Number: 4H23013-05 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Arsenic	ND		0.010	mg/L	08/27/24	08/27/24
Barium	ND		0.005	mg/L	08/27/24	08/27/24
Chromium	ND		0.005	mg/L	08/27/24	08/27/24
Copper	ND		0.020	mg/L	08/27/24	08/27/24
Iron	3.03		0.050	mg/L	08/27/24	08/27/24
Lead	ND		0.005	mg/L	08/27/24	08/27/24
Manganese	0.413		0.005	mg/L	08/27/24	08/27/24
Mercury	ND		0.0005	mg/L	08/26/24	08/27/24
Selenium	ND		0.010	mg/L	08/27/24	08/27/24
Silver	ND		0.005	mg/L	08/27/24	08/27/24
Zinc	0.036		0.020	mg/L	08/27/24	08/27/24
Calcium	7.22		0.050	mg/L	08/27/24	08/27/24
Sodium	6.4		2.0	mg/L	08/27/24	08/27/24

Results: Dissolved Metals

Sample: MW-6D

Lab Number: 4H23013-06 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Arsenic	ND		0.010	mg/L	08/27/24	08/27/24
Barium	0.017		0.005	mg/L	08/27/24	08/27/24
Chromium	ND		0.005	mg/L	08/27/24	08/27/24
Copper	ND		0.020	mg/L	08/27/24	08/27/24
Iron	1.01		0.050	mg/L	08/27/24	08/27/24
Lead	ND		0.005	mg/L	08/27/24	08/27/24
Manganese	1.37		0.005	mg/L	08/27/24	08/27/24
Mercury	ND		0.0005	mg/L	08/26/24	08/27/24
Selenium	ND		0.010	mg/L	08/27/24	08/27/24
Silver	ND		0.005	mg/L	08/27/24	08/27/24
Zinc	0.023		0.020	mg/L	08/27/24	08/27/24
Calcium	21.8		0.050	mg/L	08/27/24	08/27/24
Sodium	11.6		2.0	mg/L	08/27/24	08/27/24

Results: Dissolved Metals**Sample: MW-7S****Lab Number: 4H23013-07 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Arsenic	0.056		0.010	mg/L	08/27/24	08/27/24
Barium	0.025		0.005	mg/L	08/27/24	08/27/24
Chromium	ND		0.005	mg/L	08/27/24	08/27/24
Copper	ND		0.020	mg/L	08/27/24	08/27/24
Iron	29.4		0.050	mg/L	08/27/24	08/27/24
Lead	ND		0.005	mg/L	08/27/24	08/27/24
Manganese	5.66		0.005	mg/L	08/27/24	08/27/24
Mercury	ND		0.0005	mg/L	08/26/24	08/27/24
Selenium	0.013		0.010	mg/L	08/27/24	08/27/24
Silver	ND		0.005	mg/L	08/27/24	08/27/24
Zinc	0.022		0.020	mg/L	08/27/24	08/27/24
Calcium	42.4		0.050	mg/L	08/27/24	08/27/24
Sodium	32.6		2.0	mg/L	08/27/24	08/27/24

Results: Dissolved Metals**Sample: DUP-1****Lab Number: 4H23013-10 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Arsenic	ND		0.010	mg/L	08/27/24	08/27/24
Barium	ND		0.005	mg/L	08/27/24	08/27/24
Chromium	ND		0.005	mg/L	08/27/24	08/27/24
Copper	ND		0.020	mg/L	08/27/24	08/27/24
Iron	2.93		0.050	mg/L	08/27/24	08/27/24
Lead	ND		0.005	mg/L	08/27/24	08/27/24
Manganese	0.378		0.005	mg/L	08/27/24	08/27/24
Mercury	ND		0.0005	mg/L	08/26/24	08/27/24
Selenium	ND		0.010	mg/L	08/27/24	08/27/24
Silver	ND		0.005	mg/L	08/27/24	08/27/24
Zinc	0.032		0.020	mg/L	08/27/24	08/27/24
Calcium	6.74		0.050	mg/L	08/27/24	08/27/24
Sodium	6.5		2.0	mg/L	08/27/24	08/27/24

Results: Volatile Organic Compounds

Sample: MW-1
Lab Number: 4H23013-01 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	ND		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	ND		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: MW-1 (Continued)

Lab Number: 4H23013-01 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	ND		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	96.6%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	103%		70-130		08/29/24	08/29/24
Toluene-d8	101%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: MW-3
Lab Number: 4H23013-02 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	2		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	28		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	28		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: MW-3 (Continued)

Lab Number: 4H23013-02 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	66		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	97.0%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	103%		70-130		08/29/24	08/29/24
Toluene-d8	102%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: MW-5S
Lab Number: 4H23013-03 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	ND		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	ND		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: MW-5S (Continued)

Lab Number: 4H23013-03 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	ND		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	96.2%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	104%		70-130		08/29/24	08/29/24
Toluene-d8	102%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: MW-5D
Lab Number: 4H23013-04 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	3		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	3		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	3		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: MW-5D (Continued)

Lab Number: 4H23013-04 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	10		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	97.9%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	105%		70-130		08/29/24	08/29/24
Toluene-d8	101%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: MW-6S
Lab Number: 4H23013-05 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	ND		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	ND		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: MW-6S (Continued)

Lab Number: 4H23013-05 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	ND		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	97.0%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	105%		70-130		08/29/24	08/29/24
Toluene-d8	102%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: MW-6D

Lab Number: 4H23013-06 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	ND		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	ND		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: MW-6D (Continued)

Lab Number: 4H23013-06 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	ND		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	97.1%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	104%		70-130		08/29/24	08/29/24
Toluene-d8	100%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: MW-7S

Lab Number: 4H23013-07 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	2		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	2		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	2		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: MW-7S (Continued)

Lab Number: 4H23013-07 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	6		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	97.0%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	103%		70-130		08/29/24	08/29/24
Toluene-d8	100%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: MW-8S

Lab Number: 4H23013-08 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	ND		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	ND		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: MW-8S (Continued)

Lab Number: 4H23013-08 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	ND		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	97.6%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	102%		70-130		08/29/24	08/29/24
Toluene-d8	102%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: MW-8D
Lab Number: 4H23013-09 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	ND		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	ND		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: MW-8D (Continued)

Lab Number: 4H23013-09 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	ND		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	95.9%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	105%		70-130		08/29/24	08/29/24
Toluene-d8	101%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: DUP-1

Lab Number: 4H23013-10 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	ND		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	ND		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: DUP-1 (Continued)

Lab Number: 4H23013-10 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	ND		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	97.2%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	104%		70-130		08/29/24	08/29/24
Toluene-d8	103%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: SUR-1
Lab Number: 4H23013-11 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	ND		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	ND		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: SUR-1 (Continued)

Lab Number: 4H23013-11 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	ND		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	95.2%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	104%		70-130		08/29/24	08/29/24
Toluene-d8	101%		70-130		08/29/24	08/29/24

Results: Volatile Organic Compounds

Sample: TB-1

Lab Number: 4H23013-12 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		100	ug/l	08/29/24	08/29/24
Benzene	ND		1	ug/l	08/29/24	08/29/24
Bromobenzene	ND		1	ug/l	08/29/24	08/29/24
Bromochloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromodichloromethane	ND		1	ug/l	08/29/24	08/29/24
Bromoform	ND		1	ug/l	08/29/24	08/29/24
Bromomethane	ND		1	ug/l	08/29/24	08/29/24
2-Butanone	ND		100	ug/l	08/29/24	08/29/24
tert-Butyl alcohol	ND		5	ug/l	08/29/24	08/29/24
sec-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
n-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
tert-Butylbenzene	ND		1	ug/l	08/29/24	08/29/24
Methyl t-butyl ether (MTBE)	ND		1	ug/l	08/29/24	08/29/24
Carbon Disulfide	ND		1	ug/l	08/29/24	08/29/24
Carbon Tetrachloride	ND		1	ug/l	08/29/24	08/29/24
Chlorobenzene	ND		1	ug/l	08/29/24	08/29/24
Chloroethane	ND		1	ug/l	08/29/24	08/29/24
Chloroform	ND		1	ug/l	08/29/24	08/29/24
Chloromethane	ND		1	ug/l	08/29/24	08/29/24
4-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
2-Chlorotoluene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	08/29/24	08/29/24
Dibromochloromethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dibromoethane (EDB)	ND		1	ug/l	08/29/24	08/29/24
Dibromomethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,4-Dichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,2 Dichloroethene, Total	ND		1	ug/l	08/29/24	08/29/24
trans-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
cis-1,2-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
2,2-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
cis-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
trans-1,3-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,1-Dichloropropene	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	08/29/24	08/29/24
Diethyl ether	ND		5	ug/l	08/29/24	08/29/24
1,4-Dioxane	ND		100	ug/l	08/29/24	08/29/24
Ethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Hexachlorobutadiene	ND		1	ug/l	08/29/24	08/29/24
2-Hexanone	ND		100	ug/l	08/29/24	08/29/24
Isopropylbenzene	ND		1	ug/l	08/29/24	08/29/24
p-Isopropyltoluene	ND		1	ug/l	08/29/24	08/29/24

Results: Volatile Organic Compounds (Continued)

Sample: TB-1 (Continued)

Lab Number: 4H23013-12 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		1	ug/l	08/29/24	08/29/24
4-Methyl-2-pentanone	ND		100	ug/l	08/29/24	08/29/24
Naphthalene	ND		1	ug/l	08/29/24	08/29/24
n-Propylbenzene	ND		1	ug/l	08/29/24	08/29/24
Styrene	ND		1	ug/l	08/29/24	08/29/24
1,1,1,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
Tetrachloroethene	ND		1	ug/l	08/29/24	08/29/24
Tetrahydrofuran	ND		5	ug/l	08/29/24	08/29/24
Toluene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichlorobenzene	ND		1	ug/l	08/29/24	08/29/24
1,1,2-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
1,1,1-Trichloroethane	ND		1	ug/l	08/29/24	08/29/24
Trichloroethene	ND		1	ug/l	08/29/24	08/29/24
1,2,3-Trichloropropane	ND		1	ug/l	08/29/24	08/29/24
1,3,5-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
1,2,4-Trimethylbenzene	ND		1	ug/l	08/29/24	08/29/24
Vinyl Chloride	ND		1	ug/l	08/29/24	08/29/24
o-Xylene	ND		1	ug/l	08/29/24	08/29/24
m&p-Xylene	ND		2	ug/l	08/29/24	08/29/24
Total xylenes	ND		1	ug/l	08/29/24	08/29/24
1,1,2,2-Tetrachloroethane	ND		1	ug/l	08/29/24	08/29/24
tert-Amyl methyl ether	ND		1	ug/l	08/29/24	08/29/24
1,3-Dichloropropane	ND		1	ug/l	08/29/24	08/29/24
Ethyl tert-butyl ether	ND		1	ug/l	08/29/24	08/29/24
Diisopropyl ether	ND		1	ug/l	08/29/24	08/29/24
Trichlorofluoromethane	ND		1	ug/l	08/29/24	08/29/24
Dichlorodifluoromethane	ND		1	ug/l	08/29/24	08/29/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	97.1%		70-130		08/29/24	08/29/24
1,2-Dichloroethane-d4	103%		70-130		08/29/24	08/29/24
Toluene-d8	102%		70-130		08/29/24	08/29/24

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name:	<u>New England Testing Laboratory</u>		Contract:	<u>DITN - 2024- Dighton, Mass</u>	
Lab Code:	<u>RI010</u>	Case No.	<u>4H23013</u>	Client:	<u>Green Seal Environmental</u>
Matrix: (soil/water)	<u>Water</u>		Lab Sample ID:	<u>H23013-01</u>	
Sample Vol.	<u>5</u>	(g/mL)	mL	Lab File ID:	<u>C082914.d</u>
Level: (low/med)	<u></u>		Date Received:	<u>8/23/2024</u>	
% Moisture: not dec.	<u></u>		Date Analyzed:	<u>8/29/2024</u>	
GC Column:	ID:	<u></u>	(mm)	Dilution Factor:	<u>1</u>
Soil Extract Volume:	<u></u>		(uL)	Soil Aliquot Vol: (uL)	<u></u>

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name:	<u>New England Testing Laboratory</u>	Contract:	<u>DITN - 2024- Dighton, Mass</u>
Lab Code:	<u>RI010</u>	Case No.	<u>4H23013</u>
Matrix: (soil/water)	<u>Water</u>	Client:	<u>Green Seal Environmental</u>
Sample Vol.	<u>5</u> (g/mL)	Lab Sample ID:	<u>H23013-02</u>
Level: (low/med)	<u></u>	Lab File ID:	<u>C082916.d</u>
% Moisture: not dec.	<u></u>	Date Received:	<u>8/23/2024</u>
GC Column:	ID: <u></u> (mm)	Date Analyzed:	<u>8/29/2024</u>
Soil Extract Volume:	<u></u> (uL)	Dilution Factor:	<u>1</u>
		Soil Aliquot Vol: (uL)	<u></u>

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name: <u>New England Testing Laboratory</u>	Contract: <u>DITN - 2024- Dighton, Mass</u>
Lab Code: <u>RI010</u> Case No. <u>4H23013</u>	Client: <u>Green Seal Environmental</u>
Matrix: (soil/water) <u>Water</u>	Lab Sample ID: <u>H23013-03</u>
Sample Vol. <u>5</u> (g/mL) <u>mL</u>	Lab File ID: <u>C082918.d</u>
Level: (low/med) _____	Date Received: <u>8/23/2024</u>
% Moisture: not dec. _____	Date Analyzed: <u>8/29/2024</u>
GC Column: ID: _____ (mm)	Dilution Factor: <u>1</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Vol: (uL) _____

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name: <u>New England Testing Laboratory</u>	Contract: <u>DITN - 2024- Dighton, Mass</u>
Lab Code: <u>RI010</u> Case No. <u>4H23013</u>	Client: <u>Green Seal Environmental</u>
Matrix: (soil/water) <u>Water</u>	Lab Sample ID: <u>H23013-04</u>
Sample Vol. <u>5</u> (g/mL) <u>mL</u>	Lab File ID: <u>C082920.d</u>
Level: (low/med) _____	Date Received: <u>8/23/2024</u>
% Moisture: not dec. _____	Date Analyzed: <u>8/29/2024</u>
GC Column: ID: _____ (mm)	Dilution Factor: <u>1</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Vol: (uL) _____

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name: <u>New England Testing Laboratory</u>	Contract: <u>DITN - 2024- Dighton, Mass</u>
Lab Code: <u>RI010</u> Case No. <u>4H23013</u>	Client: <u>Green Seal Environmental</u>
Matrix: (soil/water) <u>Water</u>	Lab Sample ID: <u>H23013-05</u>
Sample Vol. <u>5</u> (g/mL) <u>mL</u>	Lab File ID: <u>C082922.d</u>
Level: (low/med) _____	Date Received: <u>8/23/2024</u>
% Moisture: not dec. _____	Date Analyzed: <u>8/29/2024</u>
GC Column: ID: _____ (mm)	Dilution Factor: <u>1</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Vol: (uL) _____

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name:	<u>New England Testing Laboratory</u>	Contract:	<u>DITN - 2024- Dighton, Mass</u>
Lab Code:	<u>RI010</u>	Case No.	<u>4H23013</u>
Matrix: (soil/water)	<u>Water</u>	Client:	<u>Green Seal Environmental</u>
Sample Vol.	<u>5</u> (g/mL)	Lab Sample ID:	<u>H23013-06</u>
Level: (low/med)	<u></u>	Lab File ID:	<u>C082924.d</u>
% Moisture: not dec.	<u></u>	Date Received:	<u>8/23/2024</u>
GC Column:	ID: <u></u> (mm)	Date Analyzed:	<u>8/29/2024</u>
Soil Extract Volume:	<u></u> (uL)	Dilution Factor:	<u>1</u>
		Soil Aliquot Vol: (uL)	<u></u>

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name:	<u>New England Testing Laboratory</u>		Contract:	<u>DITN - 2024- Dighton, Mass</u>	
Lab Code:	<u>RI010</u>	Case No.	<u>4H23013</u>	Client:	<u>Green Seal Environmental</u>
Matrix: (soil/water)	<u>Water</u>		Lab Sample ID:	<u>H23013-07</u>	
Sample Vol.	<u>5</u>	(g/mL)	<u>mL</u>	Lab File ID:	<u>C082926.d</u>
Level: (low/med)	<u></u>		Date Received:	<u>8/23/2024</u>	
% Moisture: not dec.	<u></u>		Date Analyzed:	<u>8/29/2024</u>	
GC Column:	ID:	<u></u>	(mm)	Dilution Factor:	<u>1</u>
Soil Extract Volume:	<u></u>		(uL)	Soil Aliquot Vol: (uL)	<u></u>

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name:	<u>New England Testing Laboratory</u>	Contract:	<u>DITN - 2024- Dighton, Mass</u>
Lab Code:	<u>RI010</u>	Case No.	<u>4H23013</u>
Matrix: (soil/water)	<u>Water</u>	Client:	<u>Green Seal Environmental</u>
Sample Vol.	<u>5 (g/mL)</u>	Lab Sample ID:	<u>H23013-08</u>
Level: (low/med)	<u></u>	Lab File ID:	<u>C082928.d</u>
% Moisture: not dec.	<u></u>	Date Received:	<u>8/23/2024</u>
GC Column:	ID: <u></u> (mm)	Date Analyzed:	<u>8/29/2024</u>
Soil Extract Volume:	<u></u> (uL)	Dilution Factor:	<u>1</u>
		Soil Aliquot Vol: (uL)	<u></u>

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name:	<u>New England Testing Laboratory</u>	Contract:	<u>DITN - 2024- Dighton, Mass</u>
Lab Code:	<u>RI010</u>	Case No.	<u>4H23013</u>
Matrix: (soil/water)	<u>Water</u>	Client:	<u>Green Seal Environmental</u>
Sample Vol.	<u>5 (g/mL)</u>	Lab Sample ID:	<u>H23013-09</u>
Level: (low/med)	<u></u>	Lab File ID:	<u>C082930.d</u>
% Moisture: not dec.	<u></u>	Date Received:	<u>8/23/2024</u>
GC Column:	ID: <u></u> (mm)	Date Analyzed:	<u>8/29/2024</u>
Soil Extract Volume:	<u></u> (uL)	Dilution Factor:	<u>1</u>
		Soil Aliquot Vol: (uL)	<u></u>

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name: <u>New England Testing Laboratory</u>	Contract: <u>DITN - 2024- Dighton, Mass</u>
Lab Code: <u>RI010</u> Case No. <u>4H23013</u>	Client: <u>Green Seal Environmental</u>
Matrix: (soil/water) <u>Water</u>	Lab Sample ID: <u>H23013-10</u>
Sample Vol. <u>5</u> (g/mL) <u>mL</u>	Lab File ID: <u>C082932.d</u>
Level: (low/med) _____	Date Received: <u>8/23/2024</u>
% Moisture: not dec. _____	Date Analyzed: <u>8/29/2024</u>
GC Column: ID: _____ (mm)	Dilution Factor: <u>1</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Vol: (uL) _____

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name:	<u>New England Testing Laboratory</u>	Contract:	<u>DITN - 2024- Dighton, Mass</u>
Lab Code:	<u>RI010</u>	Case No.	<u>4H23013</u>
Matrix: (soil/water)	<u>Water</u>	Client:	<u>Green Seal Environmental</u>
Sample Vol.	<u>5 (g/mL)</u>	Lab Sample ID:	<u>H23013-11</u>
Level: (low/med)	<u></u>	Lab File ID:	<u>C082934.d</u>
% Moisture: not dec.	<u></u>	Date Received:	<u>8/23/2024</u>
GC Column:	ID: <u></u> (mm)	Date Analyzed:	<u>8/29/2024</u>
Soil Extract Volume:	<u></u> (uL)	Dilution Factor:	<u>1</u>
		Soil Aliquot Vol: (uL)	<u></u>

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

1E
Volatile Organics Analysis Data Sheet
Tentatively Identified Compounds

lab Name:	<u>New England Testing Laboratory</u>	Contract:	<u>DITN - 2024- Dighton, Mass</u>
Lab Code:	<u>RI010</u>	Case No.	<u>4H23013</u>
Matrix: (soil/water)	<u>Water</u>	Client:	<u>Green Seal Environmental</u>
Sample Vol.	<u>5</u> (g/mL)	Lab Sample ID:	<u>H23013-12</u>
Level: (low/med)	<u></u>	Lab File ID:	<u>C082912.d</u>
% Moisture: not dec.	<u></u>	Date Received:	<u>8/23/2024</u>
GC Column:	ID: <u></u> (mm)	Date Analyzed:	<u>8/29/2024</u>
Soil Extract Volume:	<u></u> (uL)	Dilution Factor:	<u>1</u>
		Soil Aliquot Vol: (uL)	<u></u>

Number of TICs Found: 0 Concentration Units: (ug/L) ug/L

TIC No.	Compound Name	RT	Est. Conc.	Q

Results: Semivolatile Organic Compounds - SIM

Sample: MW-1
Lab Number: 4H23013-01 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	ND		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	119%		15-120		08/27/24	08/30/24

Results: Semivolatile Organic Compounds - SIM

Sample: MW-3
Lab Number: 4H23013-02 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	ND		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	103%		15-120		08/27/24	08/30/24

Results: Semivolatile Organic Compounds - SIM

Sample: MW-5S
Lab Number: 4H23013-03 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	ND		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	101%		15-120		08/27/24	08/30/24

Results: Semivolatile Organic Compounds - SIM

Sample: MW-5D
Lab Number: 4H23013-04 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	0.490		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	114%		15-120		08/27/24	08/30/24

Results: Semivolatile Organic Compounds - SIM

Sample: MW-6S
Lab Number: 4H23013-05 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	ND		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	106%		15-120		08/27/24	08/30/24

Results: Semivolatile Organic Compounds - SIM

Sample: MW-6D
Lab Number: 4H23013-06 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	ND		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	109%		15-120		08/27/24	08/30/24

Results: Semivolatile Organic Compounds - SIM

Sample: MW-7S
Lab Number: 4H23013-07 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	0.260		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	119%		15-120		08/27/24	08/30/24

Results: Semivolatile Organic Compounds - SIM

Sample: MW-8S
Lab Number: 4H23013-08 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	0.550		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	112%		15-120		08/27/24	08/30/24

Results: Semivolatile Organic Compounds - SIM

Sample: MW-8D
Lab Number: 4H23013-09 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	0.800		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	110%		15-120		08/27/24	08/30/24

Results: Semivolatile Organic Compounds - SIM

Sample: DUP-1
Lab Number: 4H23013-10 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	ND		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	110%		15-120		08/27/24	08/30/24

Results: Semivolatile Organic Compounds - SIM

Sample: SUR-1
Lab Number: 4H23013-11 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,4-Dioxane	ND		0.200	ug/l	08/27/24	08/30/24
Surrogate(s)	Recovery%		Limits			
1,4-Dioxane-d8 (S)	110%		15-120		08/27/24	08/30/24

Quality Control

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1024 - Ion Chromatography										
Blank (B4H1024-BLK1)					Prepared & Analyzed: 08/23/24					
Chloride	ND		0.25	mg/L						
Nitrate as N	ND		0.25	mg/L						
Sulfate	ND		0.25	mg/L						
Blank (B4H1024-BLK2)					Prepared & Analyzed: 08/23/24					
Chloride	ND		0.25	mg/L						
Sulfate	ND		0.25	mg/L						
Nitrate as N	ND		0.25	mg/L						
LCS (B4H1024-BS1)					Prepared & Analyzed: 08/23/24					
Chloride	4.80		0.25	mg/L	5.00		96.0	90-110		
Sulfate	4.80		0.25	mg/L	5.00		96.0	90-110		
Nitrate as N	4.92		0.25	mg/L	5.00		98.4	90-110		
LCS (B4H1024-BS2)					Prepared & Analyzed: 08/23/24					
Chloride	4.80		0.25	mg/L	5.00		96.0	90-110		
Nitrate as N	4.92		0.25	mg/L	5.00		98.4	90-110		
Sulfate	4.80		0.25	mg/L	5.00		96.0	90-110		
Matrix Spike (B4H1024-MS1)					Source: 4H22024-01		Prepared & Analyzed: 08/23/24			
Chloride	125		0.25	mg/L	5.00	130	NR	90-110		
Sulfate	24.7		0.25	mg/L	5.00	20.9	76.0	90-110		
Nitrate as N	13.8		0.25	mg/L	5.00	9.57	84.8	90-110		
Matrix Spike (B4H1024-MS2)					Source: 4H22030-02		Prepared & Analyzed: 08/23/24			
Chloride	478		0.25	mg/L	5.00		NR	90-110		
Nitrate as N	33.0		0.25	mg/L	5.00	11.6	428	90-110		
Sulfate	73.1		0.25	mg/L	5.00		NR	90-110		

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1024 - Ion Chromatography (Continued)										
Matrix Spike Dup (B4H1024-MSD1)		Source: 4H22024-01			Prepared & Analyzed: 08/23/24					
Chloride	125		0.25	mg/L	5.00	130	NR	90-110	0.0155	10
Sulfate	24.7		0.25	mg/L	5.00	20.9	76.4	90-110	0.0854	10
Nitrate as N	13.8		0.25	mg/L	5.00	9.57	85.0	90-110	0.0543	10
Matrix Spike Dup (B4H1024-MSD2)		Source: 4H22030-02			Prepared & Analyzed: 08/23/24					
Chloride	478		0.25	mg/L	5.00		NR	90-110	0.0276	10
Sulfate	73.0		0.25	mg/L	5.00		NR	90-110	0.0164	10
Nitrate as N	33.0		0.25	mg/L	5.00	11.6	428	90-110	0.00394	10
Batch: B4H1035 - Cyanide										
Blank (B4H1035-BLK1)		Prepared & Analyzed: 08/26/24								
Cyanide	ND		0.01	mg/L						
Blank (B4H1035-BLK2)		Prepared & Analyzed: 08/26/24								
Cyanide	ND		0.01	mg/L						
LCS (B4H1035-BS1)		Prepared & Analyzed: 08/26/24								
Cyanide	0.10		0.01	mg/L	0.100		98.0	80-120		
LCS (B4H1035-BS2)		Prepared & Analyzed: 08/26/24								
Cyanide	0.10		0.01	mg/L	0.100		98.0	80-120		
Duplicate (B4H1035-DUP2)		Source: 4H21040-02			Prepared & Analyzed: 08/26/24					
Cyanide	ND		0.01	mg/L	ND					20
Matrix Spike (B4H1035-MS2)		Source: 4H21040-02			Prepared & Analyzed: 08/26/24					
Cyanide	0.09		0.01	mg/L	0.100	ND	90.0	80-120		

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1096 - Ion Chromatography										
Blank (B4H1096-BLK1)					Prepared & Analyzed: 08/26/24					
Chloride	ND		0.25	mg/L						
Sulfate	ND		0.25	mg/L						
Blank (B4H1096-BLK2)					Prepared & Analyzed: 08/26/24					
Chloride	ND		0.25	mg/L						
Sulfate	ND		0.25	mg/L						
LCS (B4H1096-BS1)					Prepared & Analyzed: 08/26/24					
Chloride	4.89		0.25	mg/L	5.00		97.8	90-110		
Sulfate	4.88		0.25	mg/L	5.00		97.7	90-110		
LCS (B4H1096-BS2)					Prepared & Analyzed: 08/26/24					
Chloride	4.91		0.25	mg/L	5.00		98.2	90-110		
Sulfate	4.91		0.25	mg/L	5.00		98.2	90-110		
Matrix Spike (B4H1096-MS1)					Source: 4H26004-01		Prepared & Analyzed: 08/26/24			
Chloride	180		0.25	mg/L	5.00	192	NR	90-110		
Sulfate	50.7		0.25	mg/L	5.00	50.0	14.0	90-110		
Matrix Spike (B4H1096-MS2)					Source: 4H26020-01		Prepared & Analyzed: 08/26/24			
Chloride	97.6		0.25	mg/L	5.00	99.9	NR	90-110		
Sulfate	23.2		0.25	mg/L	5.00	19.5	73.7	90-110		
Matrix Spike Dup (B4H1096-MSD1)					Source: 4H26004-01		Prepared & Analyzed: 08/26/24			
Chloride	180		0.25	mg/L	5.00	192	NR	90-110	0.0761	10
Sulfate	50.8		0.25	mg/L	5.00	50.0	15.7	90-110	0.172	10
Matrix Spike Dup (B4H1096-MSD2)					Source: 4H26020-01		Prepared & Analyzed: 08/26/24			
Chloride	97.7		0.25	mg/L	5.00	99.9	NR	90-110	0.0921	10
Sulfate	23.2		0.25	mg/L	5.00	19.5	73.7	90-110	0.0186	10

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1105 - Alkalinity										
Blank (B4H1105-BLK1)					Prepared & Analyzed: 08/27/24					
Alkalinity as CaCO3	ND		2	mg/L						
LCS (B4H1105-BS1)					Prepared & Analyzed: 08/27/24					
Alkalinity as CaCO3	51		2	mg/L	50.0		101	90-110		
Duplicate (B4H1105-DUP1)					Prepared & Analyzed: 08/27/24					
Alkalinity as CaCO3	106		2	mg/L		112			6.06	20
Matrix Spike (B4H1105-MS1)					Prepared & Analyzed: 08/27/24					
Alkalinity as CaCO3	187		2	mg/L	50.0	112	150	80-120		
Batch: B4H1109 - Cyanide										
Blank (B4H1109-BLK1)					Prepared & Analyzed: 08/27/24					
Cyanide	ND		0.01	mg/L						
Blank (B4H1109-BLK2)					Prepared & Analyzed: 08/27/24					
Cyanide	ND		0.01	mg/L						
LCS (B4H1109-BS1)					Prepared & Analyzed: 08/27/24					
Cyanide	0.10		0.01	mg/L	0.100		104	80-120		
LCS (B4H1109-BS2)					Prepared & Analyzed: 08/27/24					
Cyanide	0.10		0.01	mg/L	0.100		98.0	80-120		
LCS (B4H1109-BS3)					Prepared & Analyzed: 08/27/24					
Cyanide	0.10		0.01	mg/L	0.100		98.0	80-120		

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1109 - Cyanide (Continued)										
Duplicate (B4H1109-DUP1)			Source: 4H23013-01		Prepared & Analyzed: 08/27/24					
Cyanide	ND		0.01	mg/L		ND				20
Matrix Spike (B4H1109-MS1)			Source: 4H23013-01		Prepared & Analyzed: 08/27/24					
Cyanide	0.08		0.01	mg/L	0.100	ND	82.0	80-120		
Batch: B4H1223 - TDS										
Blank (B4H1223-BLK1)			Prepared & Analyzed: 08/29/24							
Total Dissolved Solids	ND		10	mg/L						
LCS (B4H1223-BS1)			Prepared & Analyzed: 08/29/24							
Total Dissolved Solids	832		10	mg/L	1000		83.2	0-200		
Duplicate (B4H1223-DUP1)			Source: 4H21036-01		Prepared & Analyzed: 08/29/24					
Total Dissolved Solids	64		10	mg/L		20			105	200
Batch: B4I0048 - COD										
Blank (B4I0048-BLK1)			Prepared & Analyzed: 09/03/24							
COD	ND		20	mg/L						
Blank (B4I0048-BLK2)			Prepared & Analyzed: 09/03/24							
COD	ND		20	mg/L						

Quality Control
(Continued)

Total Metals

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1017 - Metals Digestion Waters										
Blank (B4H1017-BLK1)					Prepared: 08/26/24 Analyzed: 08/27/24					
Lead	ND		0.005	mg/L						
Magnesium	ND		0.05	mg/L						
Selenium	ND		0.01	mg/L						
Iron	ND		0.05	mg/L						
Chromium	ND		0.005	mg/L						
Barium	ND		0.005	mg/L						
Zinc	ND		0.020	mg/L						
Copper	ND		0.02	mg/L						
Silver	ND		0.005	mg/L						
Manganese	ND		0.005	mg/L						
Arsenic	ND		0.01	mg/L						
Calcium	ND		0.05	mg/L						
Sodium	ND		2.0	mg/L						
LCS (B4H1017-BS1)					Prepared: 08/26/24 Analyzed: 08/27/24					
Zinc	1.15		0.020	mg/L	1.00		115	85-115		
Barium	1.09		0.005	mg/L	1.00		109	85-115		
Manganese	1.10		0.005	mg/L	1.00		110	85-115		
Copper	1.07		0.02	mg/L	1.00		107	85-115		
Arsenic	0.23		0.01	mg/L	0.200		115	85-115		
Selenium	0.23		0.01	mg/L	0.200		115	85-115		
Chromium	1.08		0.005	mg/L	1.00		108	85-115		
Iron	11.3		0.05	mg/L	10.0		113	85-115		
Magnesium	11.3		0.05	mg/L	10.0		113	85-115		
Lead	1.07		0.005	mg/L	1.00		107	85-115		
Silver	0.408		0.005	mg/L	0.400		102	85-115		
Sodium	11.4		2.0	mg/L	10.0		114	85-115		
Calcium	11.3		0.05	mg/L	10.0		113	85-115		

Quality Control
(Continued)

Total Metals (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1025 - Metals Cold-Vapor Mercury										
Blank (B4H1025-BLK1)										
Mercury	ND		0.0005	mg/L						Prepared: 08/26/24 Analyzed: 08/27/24
LCS (B4H1025-BS1)										
Mercury	0.0049		0.0005	mg/L	0.00500		98.6	85-115		

Quality Control
(Continued)

Dissolved Metals

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1023 - Metals Cold-Vapor Mercury										
Blank (B4H1023-BLK1)					Prepared: 08/26/24 Analyzed: 08/27/24					
Mercury	ND		0.0005	mg/L						
LCS (B4H1023-BS1)					Prepared: 08/26/24 Analyzed: 08/27/24					
Mercury	4.93			ug/l	5.00		98.6	85-115		
Batch: B4H1092 - Dissolved Metals										
Blank (B4H1092-BLK1)					Prepared & Analyzed: 08/27/24					
Chromium	ND		0.005	mg/L						
Zinc	ND		0.020	mg/L						
Arsenic	ND		0.010	mg/L						
Silver	ND		0.010	mg/L						
Lead	ND		0.010	mg/L						
Barium	ND		0.005	mg/L						
Selenium	ND		0.025	mg/L						
LCS (B4H1092-BS1)					Prepared: 08/27/24 Analyzed: 08/28/24					
Zinc	1.07		0.020	mg/L	1.00		107	85-115		
Lead	1.07		0.010	mg/L	1.00		107	85-115		
Arsenic	0.201		0.010	mg/L	0.200		101	85-115		
Chromium	1.08		0.005	mg/L	1.00		108	85-115		
Selenium	0.195		0.025	mg/L	0.200		97.7	85-115		
Silver	0.408		0.010	mg/L	0.400		102	85-115		
Barium	1.09		0.005	mg/L	1.00		109	85-115		

Quality Control
(Continued)

Volatile Organic Compounds

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1181 - Purge-Trap										
Blank (B4H1181-BLK1)					Prepared & Analyzed: 08/29/24					
Acetone	ND		100	ug/l						
Benzene	ND		1	ug/l						
Bromobenzene	ND		1	ug/l						
Bromochloromethane	ND		1	ug/l						
Bromodichloromethane	ND		1	ug/l						
Bromoform	ND		1	ug/l						
Bromomethane	ND		1	ug/l						
2-Butanone	ND		100	ug/l						
tert-Butyl alcohol	ND		5	ug/l						
sec-Butylbenzene	ND		1	ug/l						
n-Butylbenzene	ND		1	ug/l						
tert-Butylbenzene	ND		1	ug/l						
Methyl t-butyl ether (MTBE)	ND		1	ug/l						
Carbon Disulfide	ND		1	ug/l						
Carbon Tetrachloride	ND		1	ug/l						
Chlorobenzene	ND		1	ug/l						
Chloroethane	ND		1	ug/l						
Chloroform	ND		1	ug/l						
Chloromethane	ND		1	ug/l						
4-Chlorotoluene	ND		1	ug/l						
2-Chlorotoluene	ND		1	ug/l						
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l						
Dibromochloromethane	ND		1	ug/l						
1,2-Dibromoethane (EDB)	ND		1	ug/l						
Dibromomethane	ND		1	ug/l						
1,2-Dichlorobenzene	ND		1	ug/l						
1,3-Dichlorobenzene	ND		1	ug/l						
1,4-Dichlorobenzene	ND		1	ug/l						
1,1-Dichloroethane	ND		1	ug/l						
1,2-Dichloroethane	ND		1	ug/l						
trans-1,2-Dichloroethene	ND		1	ug/l						
1,2 Dichloroethene, Total	ND		1	ug/l						
cis-1,2-Dichloroethene	ND		1	ug/l						
1,1-Dichloroethene	ND		1	ug/l						
1,2-Dichloropropane	ND		1	ug/l						
2,2-Dichloropropane	ND		1	ug/l						
cis-1,3-Dichloropropene	ND		1	ug/l						
trans-1,3-Dichloropropene	ND		1	ug/l						
1,1-Dichloropropene	ND		1	ug/l						
1,3-Dichloropropene (cis + trans)	ND		2	ug/l						
Diethyl ether	ND		5	ug/l						
1,4-Dioxane	ND		100	ug/l						
Ethylbenzene	ND		1	ug/l						
Hexachlorobutadiene	ND		1	ug/l						
2-Hexanone	ND		100	ug/l						
Isopropylbenzene	ND		1	ug/l						
p-Isopropyltoluene	ND		1	ug/l						
Methylene Chloride	ND		1	ug/l						
4-Methyl-2-pentanone	ND		100	ug/l						
Naphthalene	ND		1	ug/l						
n-Propylbenzene	ND		1	ug/l						
Styrene	ND		1	ug/l						
1,1,1,2-Tetrachloroethane	ND		1	ug/l						
Tetrachloroethene	ND		1	ug/l						
Tetrahydrofuran	ND		5	ug/l						
Toluene	ND		1	ug/l						
1,2,4-Trichlorobenzene	ND		1	ug/l						

Quality Control
(Continued)

Volatile Organic Compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1181 - Purge-Trap (Continued)										
Blank (B4H1181-BLK1)					Prepared & Analyzed: 08/29/24					
1,2,3-Trichlorobenzene	ND		1	ug/l						
1,1,2-Trichloroethane	ND		1	ug/l						
1,1,1-Trichloroethane	ND		1	ug/l						
Trichloroethene	ND		1	ug/l						
1,2,3-Trichloropropane	ND		1	ug/l						
1,3,5-Trimethylbenzene	ND		1	ug/l						
1,2,4-Trimethylbenzene	ND		1	ug/l						
Vinyl Chloride	ND		1	ug/l						
o-Xylene	ND		1	ug/l						
m&p-Xylene	ND		2	ug/l						
Total xylenes	ND		1	ug/l						
1,1,2,2-Tetrachloroethane	ND		1	ug/l						
tert-Amyl methyl ether	ND		1	ug/l						
1,3-Dichloropropane	ND		1	ug/l						
Ethyl tert-butyl ether	ND		1	ug/l						
Diisopropyl ether	ND		1	ug/l						
Trichlorofluoromethane	ND		1	ug/l						
Dichlorodifluoromethane	ND		1	ug/l						
Surrogate: 4-Bromofluorobenzene			48.6	ug/l	50.0		97.1	70-130		
Surrogate: 1,2-Dichloroethane-d4			53.5	ug/l	50.0		107	70-130		
Surrogate: Toluene-d8			50.8	ug/l	50.0		102	70-130		
LCS (B4H1181-BS1)					Prepared & Analyzed: 08/29/24					
Acetone	41		5	ug/l	50.0		81.6	50-150		
Benzene	57		1	ug/l	50.0		115	70-130		
Bromobenzene	52		1	ug/l	50.0		104	70-130		
Bromochloromethane	59		1	ug/l	50.0		118	70-130		
Bromodichloromethane	58		1	ug/l	50.0		115	70-130		
Bromoform	47		1	ug/l	50.0		94.3	70-130		
Bromomethane	43		1	ug/l	50.0		85.0	50-150		
2-Butanone	47		5	ug/l	50.0		93.7	50-150		
tert-Butyl alcohol	48		5	ug/l	50.0		96.9	70-130		
sec-Butylbenzene	46		1	ug/l	50.0		91.9	70-130		
n-Butylbenzene	46		1	ug/l	50.0		91.6	70-130		
tert-Butylbenzene	52		1	ug/l	50.0		104	70-130		
Methyl t-butyl ether (MTBE)	57		1	ug/l	50.0		113	70-130		
Carbon Disulfide	64		1	ug/l	50.0		128	50-150		
Carbon Tetrachloride	54		1	ug/l	50.0		108	70-130		
Chlorobenzene	55		1	ug/l	50.0		110	70-130		
Chloroethane	50		1	ug/l	50.0		99.4	50-150		
Chloroform	56		1	ug/l	50.0		113	70-130		
Chloromethane	45		1	ug/l	50.0		89.9	50-150		
4-Chlorotoluene	55		1	ug/l	50.0		110	70-130		
2-Chlorotoluene	54		1	ug/l	50.0		107	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	47		1	ug/l	50.0		93.5	70-130		
Dibromochloromethane	52		1	ug/l	50.0		105	70-130		
1,2-Dibromoethane (EDB)	59		1	ug/l	50.0		117	70-130		
Dibromomethane	57		1	ug/l	50.0		115	70-130		
1,2-Dichlorobenzene	55		1	ug/l	50.0		110	70-130		
1,3-Dichlorobenzene	51		1	ug/l	50.0		103	70-130		
1,4-Dichlorobenzene	55		1	ug/l	50.0		109	70-130		
1,1-Dichloroethane	54		1	ug/l	50.0		108	70-130		
1,2-Dichloroethane	53		1	ug/l	50.0		106	70-130		
trans-1,2-Dichloroethene	57		1	ug/l	50.0		114	70-130		
cis-1,2-Dichloroethene	57		1	ug/l	50.0		114	70-130		
1,1-Dichloroethene	52		1	ug/l	50.0		103	70-130		
1,2-Dichloropropane	60		1	ug/l	50.0		119	70-130		

Quality Control
(Continued)

Volatile Organic Compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1181 - Purge-Trap (Continued)										
LCS (B4H1181-BS1)					Prepared & Analyzed: 08/29/24					
2,2-Dichloropropane	59		1	ug/l	50.0		118	70-130		
cis-1,3-Dichloropropene	52		1	ug/l	50.0		105	70-130		
trans-1,3-Dichloropropene	52		1	ug/l	50.0		104	70-130		
1,1-Dichloropropene	58		1	ug/l	50.0		115	70-130		
Diethyl ether	53		5	ug/l	50.0		105	70-130		
1,4-Dioxane	298		100	ug/l	250		119	50-150		
Ethylbenzene	55		1	ug/l	50.0		109	70-130		
Hexachlorobutadiene	57		1	ug/l	50.0		114	70-130		
2-Hexanone	47		5	ug/l	50.0		94.1	50-150		
Isopropylbenzene	57		1	ug/l	50.0		113	70-130		
p-Isopropyltoluene	46		1	ug/l	50.0		92.0	70-130		
Methylene Chloride	50		1	ug/l	50.0		101	70-130		
4-Methyl-2-pentanone	51		5	ug/l	50.0		101	50-150		
Naphthalene	50		1	ug/l	50.0		100	70-130		
n-Propylbenzene	46		1	ug/l	50.0		92.1	70-130		
Styrene	52		1	ug/l	50.0		104	70-130		
1,1,1,2-Tetrachloroethane	50		1	ug/l	50.0		99.4	70-130		
Tetrachloroethene	62		1	ug/l	50.0		123	70-130		
Tetrahydrofuran	52		5	ug/l	50.0		104	50-150		
Toluene	58		1	ug/l	50.0		116	70-130		
1,2,4-Trichlorobenzene	53		1	ug/l	50.0		107	70-130		
1,2,3-Trichlorobenzene	52		1	ug/l	50.0		103	70-130		
1,1,2-Trichloroethane	54		1	ug/l	50.0		107	70-130		
1,1,1-Trichloroethane	60		1	ug/l	50.0		119	70-130		
Trichloroethene	58		1	ug/l	50.0		116	70-130		
1,2,3-Trichloropropane	50		1	ug/l	50.0		99.0	70-130		
1,3,5-Trimethylbenzene	45		1	ug/l	50.0		90.7	70-130		
1,2,4-Trimethylbenzene	56		1	ug/l	50.0		112	70-130		
Vinyl Chloride	48		1	ug/l	50.0		96.5	50-150		
o-Xylene	52		1	ug/l	50.0		104	70-130		
m&p-Xylene	112		2	ug/l	100		112	70-130		
1,1,2,2-Tetrachloroethane	51		1	ug/l	50.0		102	70-130		
tert-Amyl methyl ether	59		1	ug/l	50.0		117	70-130		
1,3-Dichloropropane	57		1	ug/l	50.0		114	70-130		
Ethyl tert-butyl ether	57		1	ug/l	50.0		114	70-130		
Trichlorofluoromethane	44		1	ug/l	50.0		88.5	50-150		
Dichlorodifluoromethane	43		1	ug/l	50.0		85.1	50-150		
Surrogate: 4-Bromofluorobenzene			49.8	ug/l	50.0		99.6	70-130		
Surrogate: 1,2-Dichloroethane-d4			49.4	ug/l	50.0		98.7	70-130		
Surrogate: Toluene-d8			50.1	ug/l	50.0		100	70-130		

Quality Control
(Continued)

Volatile Organic Compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1181 - Purge-Trap (Continued)										
LCS Dup (B4H1181-BS01)					Prepared & Analyzed: 08/29/24					
Acetone	42		5	ug/l	50.0		83.6	50-150	2.49	20
Benzene	55		1	ug/l	50.0		110	70-130	4.51	20
Bromobenzene	50		1	ug/l	50.0		99.8	70-130	4.49	20
Bromochloromethane	59		1	ug/l	50.0		118	70-130	0.0509	20
Bromodichloromethane	57		1	ug/l	50.0		114	70-130	0.540	20
Bromoform	46		1	ug/l	50.0		92.9	70-130	1.50	20
Bromomethane	49		1	ug/l	50.0		97.3	50-150	13.4	20
2-Butanone	47		5	ug/l	50.0		94.3	50-150	0.723	20
tert-Butyl alcohol	51		5	ug/l	50.0		101	70-130	4.64	20
sec-Butylbenzene	44		1	ug/l	50.0		88.3	70-130	4.02	20
n-Butylbenzene	45		1	ug/l	50.0		89.7	70-130	2.12	20
tert-Butylbenzene	50		1	ug/l	50.0		99.0	70-130	5.21	20
Methyl t-butyl ether (MTBE)	55		1	ug/l	50.0		110	70-130	3.52	20
Carbon Disulfide	61		1	ug/l	50.0		122	50-150	4.24	20
Carbon Tetrachloride	52		1	ug/l	50.0		104	70-130	3.63	20
Chlorobenzene	53		1	ug/l	50.0		107	70-130	3.17	20
Chloroethane	50		1	ug/l	50.0		99.8	50-150	0.401	20
Chloroform	55		1	ug/l	50.0		110	70-130	2.59	20
Chloromethane	45		1	ug/l	50.0		89.8	50-150	0.0668	20
4-Chlorotoluene	53		1	ug/l	50.0		106	70-130	3.30	20
2-Chlorotoluene	53		1	ug/l	50.0		106	70-130	0.713	20
1,2-Dibromo-3-chloropropane (DBCP)	50		1	ug/l	50.0		99.5	70-130	6.22	20
Dibromochloromethane	51		1	ug/l	50.0		101	70-130	3.39	20
1,2-Dibromoethane (EDB)	57		1	ug/l	50.0		114	70-130	3.08	20
Dibromomethane	57		1	ug/l	50.0		113	70-130	1.21	20
1,2-Dichlorobenzene	54		1	ug/l	50.0		107	70-130	2.61	20
1,3-Dichlorobenzene	49		1	ug/l	50.0		97.7	70-130	5.30	20
1,4-Dichlorobenzene	53		1	ug/l	50.0		106	70-130	2.76	20
1,1-Dichloroethane	52		1	ug/l	50.0		105	70-130	3.25	20
1,2-Dichloroethane	51		1	ug/l	50.0		103	70-130	3.12	20
trans-1,2-Dichloroethene	55		1	ug/l	50.0		110	70-130	3.62	20
cis-1,2-Dichloroethene	55		1	ug/l	50.0		109	70-130	4.83	20
1,1-Dichloroethene	50		1	ug/l	50.0		99.1	70-130	4.27	20
1,2-Dichloropropane	58		1	ug/l	50.0		116	70-130	3.00	20
2,2-Dichloropropane	57		1	ug/l	50.0		113	70-130	4.12	20
cis-1,3-Dichloropropene	51		1	ug/l	50.0		102	70-130	2.67	20
trans-1,3-Dichloropropene	50		1	ug/l	50.0		101	70-130	2.97	20
1,1-Dichloropropene	54		1	ug/l	50.0		108	70-130	6.35	20
Diethyl ether	50		5	ug/l	50.0		101	70-130	4.35	20
1,4-Dioxane	373		100	ug/l	250		149	50-150	22.3	20
Ethylbenzene	54		1	ug/l	50.0		107	70-130	1.92	20
Hexachlorobutadiene	56		1	ug/l	50.0		112	70-130	2.00	20
2-Hexanone	48		5	ug/l	50.0		95.3	50-150	1.31	20
Isopropylbenzene	55		1	ug/l	50.0		111	70-130	2.54	20
p-Isopropyltoluene	43		1	ug/l	50.0		86.7	70-130	5.84	20
Methylene Chloride	48		1	ug/l	50.0		96.5	70-130	4.38	20
4-Methyl-2-pentanone	51		5	ug/l	50.0		101	50-150	0.0593	20
Naphthalene	52		1	ug/l	50.0		104	70-130	3.67	20
n-Propylbenzene	44		1	ug/l	50.0		88.5	70-130	3.98	20
Styrene	51		1	ug/l	50.0		102	70-130	1.75	20
1,1,1,2-Tetrachloroethane	48		1	ug/l	50.0		95.8	70-130	3.69	20
Tetrachloroethene	59		1	ug/l	50.0		118	70-130	4.53	20
Tetrahydrofuran	53		5	ug/l	50.0		106	50-150	1.46	20
Toluene	56		1	ug/l	50.0		113	70-130	2.66	20
1,2,4-Trichlorobenzene	54		1	ug/l	50.0		108	70-130	1.25	20
1,2,3-Trichlorobenzene	52		1	ug/l	50.0		105	70-130	1.52	20
1,1,2-Trichloroethane	56		1	ug/l	50.0		111	70-130	3.93	20

Quality Control
(Continued)

Volatile Organic Compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1181 - Purge-Trap (Continued)										
LCS Dup (B4H1181-BSD1)					Prepared & Analyzed: 08/29/24					
1,1,1-Trichloroethane	57		1	ug/l	50.0		114	70-130	4.28	20
Trichloroethene	56		1	ug/l	50.0		112	70-130	3.90	20
1,2,3-Trichloropropane	49		1	ug/l	50.0		98.6	70-130	0.466	20
1,3,5-Trimethylbenzene	44		1	ug/l	50.0		87.8	70-130	3.32	20
1,2,4-Trimethylbenzene	54		1	ug/l	50.0		108	70-130	3.64	20
Vinyl Chloride	46		1	ug/l	50.0		93.0	50-150	3.69	20
o-Xylene	50		1	ug/l	50.0		100	70-130	3.38	20
m&p-Xylene	108		2	ug/l	100		108	70-130	3.25	20
1,1,2,2-Tetrachloroethane	50		1	ug/l	50.0		100	70-130	1.54	20
tert-Amyl methyl ether	57		1	ug/l	50.0		115	70-130	2.12	20
1,3-Dichloropropane	55		1	ug/l	50.0		111	70-130	2.71	20
Ethyl tert-butyl ether	55		1	ug/l	50.0		110	70-130	3.53	20
Trichlorofluoromethane	43		1	ug/l	50.0		86.1	50-150	2.77	20
Dichlorodifluoromethane	44		1	ug/l	50.0		87.4	50-150	2.69	20
Surrogate: 4-Bromofluorobenzene			49.3	ug/l	50.0		98.6	70-130		
Surrogate: 1,2-Dichloroethane-d4			49.4	ug/l	50.0		98.8	70-130		
Surrogate: Toluene-d8			51.0	ug/l	50.0		102	70-130		

Quality Control
(Continued)

Semivolatile Organic Compounds - SIM

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H1062 - 2_Sep-Funnel-extraction (Aqueous)										
Blank (B4H1062-BLK1)					Prepared: 08/27/24 Analyzed: 08/30/24					
1,4-Dioxane	ND		0.200	ug/l						
<i>Surrogate: 1,4-Dioxane-d8 (S)</i>			<i>1.08</i>	ug/l	<i>1.00</i>		<i>108</i>	<i>15-120</i>		
LCS (B4H1062-BS1)					Prepared: 08/27/24 Analyzed: 08/30/24					
1,4-Dioxane	1.14		0.200	ug/l	1.00		114	40-140		
<i>Surrogate: 1,4-Dioxane-d8 (S)</i>			<i>1.16</i>	ug/l	<i>1.00</i>		<i>116</i>	<i>15-120</i>		

Notes and Definitions

Item	Definition
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

New England Testing Laboratory

59 Greenhill Street
West Warwick, RI 02893
1-888-863-8522



4 H 2 3013 Z

Chain of Custody Record

Project No. DITN-2024		Project Name/Location: Dighton, MA				Matrix			No. of Containers	Preservative	Tests**									
Client: Green Seal Environmental, LLC																				
Report To: Victoria Costa v.costa@gseenv.com																				
Invoice To: accountspayable@gseenv.com																				
Date	Time	Comp	Grab	Sample I.D.	Aqueous	Soil	Other			Alkalinity	Chloride	COD, TDS, Sulfate	Total Cyanide $\leq 1/2$	Dissolved Metals ≤ 2	Nitrogen - Nitrate	1,4 Dioxane	VOCs (Inc. TICs)	Total Metals ≤ 2	Hardness ≤ 2	
8/22/2024	15:00		x	MW-1	x					X	X	X	X	X	X	X	X			
8/22/2024	12:20		x	MW-3	x					X	X	X	X	X	X	X	X			
8/22/2024	9:35		x	MW-5S	x					X	X	X	X	X	X	X	X			
8/22/2024	10:20		x	MW-5D	x					X	X	X	X	X	X	X	X			
8/21/2024	14:15		x	MW-6S	x					X	X	X	X	X	X	X	X			
8/21/2024	14:00		x	MW-6D	x					X	X	X	X	X	X	X	X			
8/21/2024	13:05		x	MW-7S	x					X	X	X	X	X	X	X	X			
8/21/2024	12:10		x	MW-8S	x											X	X			
8/21/2024	11:20		x	MW-8D	x											X	X			
8/21/2024	14:00		x	DUP-1	x					X	X	X	X	X	X	X	X			
8/22/2024	14:10		x	SUR-1	x					X	X	X	X		X	X	X	X	X	
8/22/2024	15:30		x	TB-1	x												X			
Sampled By: Daniel Zinke, Miranda Buckley		Date/Time	Received By:		Date/Time	Laboratory Remarks: Temp. Received: <u>5</u> on ice				Special Instructions: = As, Ba, Ca, Cr, Cu, Pb, Hg, Na, Se, Ag, Zn, Fe, Mn Dissolved metals field filtered										
Relinquished By: <i>Daniel Zinke</i>		Date/Time 8/23/24 1030	Received By: <i>[Signature]</i>		Date/Time 8/23/24 1030															
**Netlab Subcontracts the following tests: Radiologicals, Radon, TOC, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates										Turnaround Time [Business Days]: 5 day										

gr 8/23/24 1450 *Ryenne T* 8/23/24 1400

COF

MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc.

Project #: DITN-2024

Project Location: Dighton, MA

RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
4H23013

Matrices: ☒ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A ☒	7470/7471 Hg CAM III B ☒	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☒	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☒	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☒ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☒ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☒ Yes ☐ No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	☒ Yes ☐ No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☒ Yes ☐ No ¹

¹All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: 

Position: Laboratory Director

Printed Name: Mike McCallum

Date: 9/10/2024



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- | | |
|---|---|
| <ul style="list-style-type: none">• Environmental Services• Solid Waste Management• Hazardous Waste• Facilities Management | <ul style="list-style-type: none">• Survey & Land Development• Civil Engineering• Construction Management• Wetland Restoration |
|---|---|
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