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Preliminary Notification Report is attached.

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Town of Falmouth

Preliminary Site Investigation and Notification Report

**John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts**

April 23, 2025

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Prepared By:

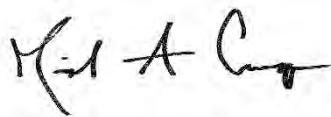
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Acronyms and Abbreviations

Arcadis	Arcadis U.S., Inc
Bgs	below grade surface
ESA	Environmental Site Assessment
GPR	Ground Penetrating Rada
HRGS	Harger-Richter Geoscience
MassDEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
OHM	oil and/or hazardous material
PCE	Tetrachloroethene
PID	photo-ionization detector
RC	Reportable Concentrations
RNF	Release Notification Form
RTN	Release Tracking Number
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Preliminary Site Investigation and Notification report for the location, which is part of Trotting Field Park, the John L Niel Youth Baseball Complex located at 525 Gifford Street, Falmouth, Massachusetts (the site). This Report has been prepared on behalf of the Town of Falmouth, the current property owner. This report is to provide additional investigation data and is submitted with Massachusetts Department of Environmental Protection (MassDEP), Bureau of Waste Site Cleanup (BWSC) Release Notification Form (RNF) 103. A Site Location Map and a Site Plan are provided as Figures 1 and 2, respectively. Arcadis' investigation consists solely of activities described in this report and is subject to the Limitations and Service Constraints provided in Appendix A.

1.1 Background

The Baseball facility is located on several parcels of land, including multiple parcels located at 525 Gifford Street Falmouth, Massachusetts Street, (Figure 2). The site comprises approximately 8 acres of improved land with an approximate 1,000-square foot storage building, a concession stands, three baseball fields with associated dugouts and announcers' boxes, lighting, parking lots, and batting cages. The remainder of the subject property consists of asphalt-paved and gravel parking lots and grassy, landscaped areas

There are overhead electrical lines to the parking area with buried electrical conduits to the fields (Figure 2) which provide electricity to the 75-foot light towers on the perimeters of the fields and scoreboard. The buildings are heated with natural gas.

Sanitary wastewater is discharged via a septic system located next to the concession stand. The septic system is regularly serviced by a contractor. Drainage on the fields consists of a few dry wells. There is no stormwater drainage in the parking lot area.

Based on information provided by the Falmouth Historical Society, Trotting Park was originally developed in 1896 as a horse racing and bicycle racing track. The track was located to the east of the baseball fields in the area of the current soccer/lacrosse fields Appendix C). According to a review of historical topographic maps, the central portion of the parcel encompassing the baseball fields was a depression that was mapped as a wetland in 1936. Arcadis reviewed historical assessor's maps provided by the Falmouth Historical Society and found that the subject property was the Falmouth Town Dump during the 1940s and 1950s. The 1951 aerial photograph depicts the subject property as disturbed land with soil stockpiles and unpaved trails along the edges of the disturbed area. Additional historical information is included in Appendix B. A newspaper article from 1957 indicated the Town dump was closed on May 1957.

The following properties adjoin the subject property:

- **North:** The Briarwood (a timeshare community)
- **East:** Additional areas of Trotting Park, including a skateboard park and soccer/lacrosse fields
- **South:** residential properties along Woodview Road
- **West:** Gifford Street and wooded land (formerly a gravel mine and gun range for law enforcement personnel)

Land use in the surrounding area consists of commercial, residential, and town-owned properties.

According to the Massachusetts Department of Protection (MassDEP) Site assessment map, the area is considered a drinking water source area. A Town of Falmouth Public Water supply well is located approximately 3500 feet to the northwest at Long Pond. According to records provided by the Town of Falmouth, the site is connected to the Town of Falmouth water supply for both the concession stand and for irrigation of the baseball fields. No potable water wells were identified to be on the site, according to the EDR Well Search report, although a well is located on the adjoining soccer field for use as an irrigation well. This well is 80 to 90 feet deep and was recently sampled by Arcadis. The baseball fields are irrigated with Town water.

The first baseball field (Field 1) was constructed, along with the concession stand in 1977/78. Field 2 was constructed between 1985 and 1991, and Field 3 was constructed between 2010 and 2014.

During recent construction and installation of lighting at the baseball fields, unsuitable fill material with glass and metal debris was observed in soil. The unsuitable fill material was removed from the lighting foundations and accessories by the installation contractor and stockpiled and covered with plastic in the lower parking area. To determine how to properly dispose of or reuse this material the Town of Falmouth retained Arcadis to inspect and sample the material in late December 2024.

The stockpile was inspected with a backhoe on December 19, 2025, and soil samples were collected and submitted to a laboratory for analysis of the Massachusetts Landfill disposal parameters. During the sampling event the material was observed to contain broken glass, bottles and metal. Further investigation into the source of the material was made and records at the Falmouth Historical Society indicate that the area of the Baseball Fields in the 1940s and 1950s was used to receive household trash and municipal waste.

Since later December 2024 Investigations to determine possible compounds or chemicals that may be present in the soil remaining on the ballfields and the extent of the former landfill has been ongoing. These investigations include:

- ASTM Phase I Environmental Site Assessment to determine site History.
- Initial Subsurface Site Investigation to evaluate near surface soils on baseball fields.
- Preliminary Risk Assessment based on near surface soil testing.
- Geophysical Survey to evaluate the extent of the former landfill
- Additional Site Investigation and groundwater sampling

2 Site History and Preliminary Site Investigation

As stated above part of the site investigation, the site history of fields was researched by completing an ASTM Phase I Site Assessment, researching Town of Falmouth historical society records, review of aerial photographs, and newspaper records. In addition, pieces of glass and bottles found during Arcadis' December 2024 sampling of the stockpile were identified as listed below:

Kensington Farm

- Found Kensington Farm Hatchville pint glass bottle (bottle intact)
- Kensington Farm operated from 1929-1933

Duraglass

- Duraglass is produced by Owens-Illinois Glass Company and is found embossed on innumerable glass bottles, jars and jugs made by the Owens-Illinois Glass Company throughout the 1940s, 1950s, and up into the 1960s, although a few bottles made as late as 1970 are seen with the logo.

A newspaper article from 1957 (Appendix C) indicated the Town Dump on Gifford Street closed to receiving any more municipal waste on May 1, 1957. Based on the site history, the area of the fields operated as a municipal landfill from the early 1920s to 1957.

Initial Investigation

The short-term objective of the initial investigation was to determine if continued use of the ballfields presents a significant risk to human health and if so, what short-term measures could be implemented to eliminate or reduce that potential risk.

Arcadis conducted an initial subsurface investigation to determine the environmental quality of the near surface soil on playing fields 1, 2 and 3 (Figure 2)

Prior to drilling, the borings were marked and Dig Safe was notified. Member utilities visited the site throughout the following week and marked utilities located in the area. In addition, a ground penetrating radar (GPR) survey was completed at all boring locations to identify underground utilities.

On December 20, 2024, Arcadis advanced 14 soil borings with a GeoProbe® drill rig to a depth approximately 5 feet below grade. Select borings were advanced to depths of 15 feet. The topsoil and underlying material were collected and submitted to a laboratory for analysis of metals, polychlorinated biphenyls (PCBs), Volatile Organic Compounds, (VOCs) and Petroleum Products. Soil samples were screened with a photoionization detector using jar headspace analysis. In addition, soil samples and the open boreholes were screened with a four-gas measuring, carbon monoxide, hydrogen sulfide, oxygen and combustible gases. No elevated readings were recorded on either instrument and no odors were noted.

The laboratory data reported concentrations of these compounds, and the results were compared to the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) reportable concentrations (RCS-1) established for residential land use or other locations where children are present on an ongoing basis. Reported concentrations of Lead, Arsenic, Zinc and PCBs were greater than the RCS-1.

Table 1 contains a summary of the results compared to the MCP Method Cleanup standards. Appendix D contains the laboratory data sheets. Boring logs and photo logs are in Appendix E.

2.1 Preliminary Risk Screening

A risk assessment screening was done as part of the ongoing environmental investigation of the former Gifford Street landfill, the current location of three baseball fields using the results of the initial 14 borings completed in December 2024. The complete risk screening is in Appendix F.

Summary of Risk Screening

The analysis of five topsoil samples collected from up to six inches beneath turf from Field 1 detected Lead at approximately 600 parts per million (ppm¹). The concentration of Lead detected in topsoil on Field 1 could pose an unacceptable risk to young children if repeated contact with soil beneath the existing turf was allowed.

The highest concentration of Lead in four topsoil samples from Field 2 was 190 ppm, and 45 ppm from four topsoil samples from Field 3. The concentrations of Lead on Fields 2 and 3 do not exceed the MassDEP health risk-based soil standard for Lead of 200 ppm ("MassDEP S-1 soil standard") and therefore do not pose a risk to health for children contacting Lead in topsoil on these fields.

Beneath the turf and topsoil the underlying landfill material had significantly higher concentrations of Lead and other constituents including antimony, arsenic, PCBs, and zinc at concentrations greater than their respective MassDEP S-1 soil standards. The maximum lead concentrations in deeper soil from 0.5 to 5 feet below turf on Field 1 (1,610 ppm), Field 2 (1,710 ppm) and Field 3 (755 ppm) are greater than the S-1 soil standard and S-2/S-3 soil standard of 600 ppm that can be used to evaluate adult worker exposures. The antimony concentration in deeper soil on Field 1 is greater than the MCP soil standards.

Based on soil data collected on December 20, 2024, the preliminary risk screening recommended the following:

Arcadis makes the following specific recommendations regarding use of Fields 1, 2 and 3.

- The topsoil samples from Field 1 contain concentrations of lead that indicate a short-term risk from repeated exposure. Arcadis recommends that this field be closed and not used for recreational purposes until a remedy can be implemented. The concentrations of constituents in the material below the topsoil also indicates a long-term risk from repeated exposure. A possible remedy is to place 2 to 3 feet of clean cover over a geotextile membrane over the landfill material and provide notice of the requirements to maintain the cover through an Activity and Use Limitation (AUL).
- The topsoil samples from Fields 2 and 3 did not contain concentrations of lead that indicate a short-term risk from repeated exposure. However, the concentration of lead in the material below the topsoil indicates a potential long-term risk from repeated exposure. On these fields, the topsoil was approximately 6 inches thick with an established grass layer approximately 2 inches thick. The topsoil and grass layer will reduce exposure to the underlying landfill material. However, the landfill material immediately below the topsoil presents a potential long-term risk. Under the MCP, the top three feet of soil are considered accessible and must meet the S-1 standards or show No Significant Risk from long-term exposure under current and future land uses. Otherwise, an AUL would be required to restrict access to soil from 0 to 3 feet.

The current topsoil layer on Field 2 and 3 is not of sufficient thickness to be considered an adequate prevention of exposure to underlying landfill material for the long term. Arcadis recommends the field use for recreation only be allowed for the next 12 months. The fields should be maintained during this time and no excavation or exposure of the subsurface soil should be done without the proper safety precautions, health and safety plan and soil management plan prepared by a Licensed Site Professional (LSP).

Currently the Town of Falmouth has closed all three fields for recreation use until a remedy can be implemented. Access to the fields is restricted with locked gates and fencing with signage.

¹ Reported as milligrams per kilogram (mg/kg)

2.2 Geophysical Study.

On February 20 and 21 Hager-Richter Geoscience (HRGS) of Derry, New Hampshire conducted a geophysical study of all three fields. HRGS used two (2) complementary methods: frequency domain electromagnetic induction (EM31) and time domain electromagnetic induction metal detection (EM61). Ground penetrating radar (GPS) was also used to determine possible depths of material. The complete geophysical report is in Appendix G.

2.3 Additional soil borings and Groundwater Monitoring Well Installation

On March 11, 2025, Arcadis advanced 12 additional soil borings with a GeoProbe® drill rig to a depth approximately 5 feet below grade. Boring B-19 and B-20 were advanced to 25 and 20 feet below grade respectively. The topsoil and underlying material were collected and submitted to a laboratory for analysis of metals, polychlorinated biphenyls (PCBs), Volatile Organic Compounds, and Petroleum Products. Soil samples were screened with a photoionization detector using jar headspace analysis. In addition, soil samples and the open boreholes were screened with a four-gas measuring, carbon monoxide, hydrogen sulfide, oxygen and combustible gases. No elevated readings or odors were noted.

Six monitoring wells constructed of schedule 40, two-inch polyvinyl chloride consisting of a well screen up to 10 feet with 0.010-inch slots were installed on site. The screen was installed to intersect the water table. The monitoring wells were completed to grade surface and finished with a flush mount. The monitoring well completion logs are attached as Appendix E. The groundwater was between 10 and 31 feet below grade. Arcadis also developed monitoring wells to establish contact with the surrounding aquifer. A Whale pump was used to purge the well and push groundwater in and out of the well screen to clear fines from the sand filter pack. Groundwater samples were collected for each well using low flow methods. Groundwater samples were collected and analyzed for VOCs via EPA 8260, EPH and PAHs and dissolved metals. Those results are shown in Table 2.

Groundwater results were below Reportable Concentrations and method 1 cleanup standards with the exception of tetrachloroethene (PCE). PCE exceeded the RCGW-1 and Method 1 GW-1 standard of 5 ug/l in a groundwater sample collected from monitoring well MW-2

2.4 Groundwater Flow Direction

Figure 3 is a groundwater flow map. Groundwater is flowing to east toward the apparent wetland

3 Preliminary Site Investigation Results

This location is in a groundwater resource area and used as a recreational facility therefore the most stringent reportable concentrations apply RCS-1 for soil RCGW-1 for groundwater. Once in the MCP the Method 1 S-1 and GW-1 standards will apply. In accordance with the MCP exceeding RC requires notification to MassDEP within 120 days. This report is being submitted with Release Notification Form BWSC-103 to provide additional information on the release.

The reportable concentrations exceeded are listed below.

O or HM Released	O or HM	Amount or Concentration	Units	RC Exceeded if Applicable (RCS-1, RCS-2 RCGW-1 RCGW-2)
Lead	HM	1710.00	mg/kg	RCS-1,RCS-2
Arsenic	HM	35.50	mg/kg	RCS-1,RCS2
PCBS	HM	3.87	mg/kg	RCS-1
Zinc	HM	17200.00	mg/kg	RCS-1, RCS-2
naphthalene	HM	7.60	mg/kg	RCS-1
2-methylnaphthalene	HM	3.35	mg/kg	RCS-1
Benzo(a) pyrene	HM	2.32	mg/kg	RCS-1
Tetrachloroethene	HM	27.00	ug/l	RCGW-1
Antimony	HM	50.8	mg/kg	RCS-1, RCS-2
Thallium	HM	50.8	mg/kg	RCS-1

Figure 3 shows the approximate extent of the former landfill based on historical research, geophysical study and the subsurface investigation completed to date. The area of the former landfill material has been covered with topsoil which is approximately 6 inches thick with a grass mat at the surface.

The site prior to the Town restricting access in January 2025 was actively used as a youth baseball. In that regard the owner, the Town of Falmouth would like to complete additional response actions as soon as possible to re-open the fields.

To evaluate remedies and funding requirements Arcadis and the Town of Falmouth conducted teleconferences with MassDEP on Wednesday January 15, and Monday April 7, 2025, to discuss preliminary findings and possible remedies.

Those attending the calls included

1. John Handrahan MassDEP
2. Navreet Brohowski MassDEP
3. Mike Renshaw Town Manger
4. Peter McConarty DPW Director
5. Peter Johnson-Staub Assistant Town Manager
6. Jim McLoughlin Town Engineer
7. Steve Cardotte Deputy Director DPW
8. Janet Keating-Connolly Arcadis Risk Assessor
9. James Luker Arcadis LSP

Since this is a former landfill that closed in 1957 Arcadis inquired if the landfill should be closed in accordance with the MassDEP 2002 guidance (Appendix C) on inactive landfill closures which requires that landfills closed before 1971 be closed under the MCP regulations.

MassDEP was in agreement the site should be closed under the MCP and not under landfill regulations.

We also discussed two possible remedies.

- A response action consisting of placing a geotextile membrane over the landfill material with 2 feet of clean cover with an Activity and Use Limitation (AUL). The AUL will restrict exposing the underlying landfill material without the proper safety precautions and a soil management plan prepared by a Licensed Site Professional (LSP).
- A response action consisting of placing a geotextile membrane over the landfill material with synthetic turf cover with an AUL. Beneath the synthetic turf there would be at least 1 foot of clean fill. The AUL will restrict exposing the underlying landfill material without the proper safety precautions and a soil management plan prepared by a Licensed Site Professional (LSP).

MassDEP agreed with the remedies on a conceptual basis and indicated two feet of cover or synthetic turf with a geomembrane that has been used successfully at similar sites and would be acceptable to MassDEP.

Arcadis will be conducting additional investigation and sampling and preparing the MCP submittals as required

Tables

Table 1
Summary of Soil Analytical Results
Preliminary Site Investigation and Notification Report
John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts



ANALYTE	CAS	SAMPLE ID:			B-1 (0-0.5)	B-1 (0.5-5)	B-2 (0-0.5)	B-2 (0.5-5)	B-3 (0-0.5)	B-3 (0.5-5)	B-4 (0-0.5)	B-4 (0.5-5)	B-5 (0-0.5)	B-5 (0.5-5)	B-6 (0-0.5)	B-6 (0.5-5)	B-7 (0-0.5)	B-7 (0.5-5)	B-8 (0-0.5)	B-8 (0.5-5)	
		LAB ID:			L2475966-01	L2475966-02	L2475966-03	L2475966-04	L2475966-05	L2475966-06	L2475966-07	L2475966-08	L2475966-09	L2475966-10	L2475966-11	L2475966-12	L2475966-13	L2475966-14	L2475966-15	L2475966-16	
		COLLECTION DATE:			12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	
		SAMPLE MATRIX:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		REGULATORY STANDARDS (mg/kg)																			
S-1/GW-1	S-2/GW-1	S-3/GW-1																			
MCP VOLATILE ORGANICS BY EPA 5035																					
1,1,1,2-Tetrachloroethane	630-20-6	0.1	0.1	0.1		0.0005 U				0.00056 U		0.00048 U				0.00066 U		0.00059 U		0.00066 U	
1,1,1-Trichloroethane	71-55-6	30	30	30		0.0005 U				0.00056 U		0.00048 U				0.00066 U		0.00059 U		0.00066 U	
1,1,2,2-Tetrachloroethane	79-34-5	0.005	0.005	0.005		0.0005 U				0.00056 U		0.00048 U				0.00066 U		0.00059 U		0.00066 U	
1,1,2-Trichloroethane	79-00-5	0.1	0.1	0.1		0.001 U				0.0011 U		0.00095 U				0.0013 U		0.0012 U		0.0013 U	
1,1-Dichloroethane	75-34-3	0.4	0.4	0.4		0.001 U				0.0011 U		0.00095 U				0.0013 U		0.0012 U		0.0013 U	
1,1-Dichloroethene	75-35-4	3	3	3		0.001 U				0.0011 U		0.00095 U				0.0013 U		0.0012 U		0.0013 U	
1,1-Dichloropropene	563-58-6					0.0005 U				0.00056 U		0.00048 U				0.00066 U		0.00059 U		0.00066 U	
1,2,3-Trichlorobenzene	87-61-6					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
1,2,3-Trichloropropane	96-18-4					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
1,2,4-Trichlorobenzene	120-82-1	2	2	2		0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
1,2,4-Trimethylbenzene	95-63-6					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
1,2-Dibromo-3-chloropropane	96-12-8					0.003 U				0.0034 U		0.0028 U				0.004 U		0.0035 U		0.0039 U	
1,2-Dibromoethane	106-93-4	0.1	0.1	0.1		0.001 U				0.0011 U		0.00095 U				0.0013 U		0.0012 U		0.0013 U	
1,2-Dichlorobenzene	95-50-1	9	9	9		0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
1,2-Dichloroethane	107-06-2	0.1	0.1	0.1		0.001 U				0.0011 U		0.00095 U				0.0013 U		0.0012 U		0.0013 U	
1,2-Dichloroethene, Total	540-59-0					0.001 U				0.0011 U		0.00095 U				0.0013 U		0.0012 U		0.0013 U	
1,2-Dichloropropane	78-87-5	0.1	0.1	0.1		0.001 U				0.0011 U		0.00095 U				0.0013 U		0.0012 U		0.0013 U	
1,3,5-Trimethylbenzene	108-67-8					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
1,3-Dichlorobenzene	541-73-1	3	3	3		0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
1,3-Dichloropropane	142-28-9					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
1,3-Dichloropropene, Total	542-75-6	0.01	0.01	0.01		0.0005 U				0.00056 U		0.00048 U				0.00066 U		0.00059 U		0.00066 U	
1,4-Dichlorobenzene	106-46-7	0.7	0.7	0.7		0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
1,4-Dioxane	123-91-1	0.2	0.2	0.2		0.08 U				0.09 U		0.076 U				0.1 U		0.095 U		0.1 U	
2,2-Dichloropropane	594-20-7					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
2-Hexanone	591-78-6					0.01 U				0.011 U		0.0095 U				0.013 U		0.012 U		0.013 U	
Acetone	67-64-1	6	6	6		0.025 U				0.028 U		0.024 U				0.033 U		0.03 U		0.033 U	
Benzene	71-43-2	2	2	2		0.0005 U				0.00056 U		0.00048 U				0.00066 U		0.00059 U		0.00066 U	
Bromobenzene	108-86-1					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
Bromochloromethane	74-97-5					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
Bromodichloromethane	75-27-4	0.1	0.1	0.1		0.0005 U				0.00056 U		0.00048 U				0.00066 U		0.00059 U		0.00066 U	
Bromoform	75-25-2	0.1	0.1	0.1		0.004 U				0.0045 U		0.0038 U				0.0053 U		0.0047 U		0.0052 U	
Bromomethane	74-83-9	0.5	0.5	0.5		0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
Carbon disulfide	75-15-0					0.01 U				0.011 U		0.0095 U				0.013 U		0.012 U		0.013 U	
Carbon tetrachloride	56-23-5	10	10	10		0.001 U				0.0011 U		0.00095 U				0.0013 U		0.0012 U		0.0013 U	
Chlorobenzene	108-90-7	1	1	1		0.0005 U				0.00056 U		0.00048 U				0.00066 U		0.00059 U		0.00066 U	
Chloroethane	75-00-3					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
Chloroform	67-66-3	0.4	0.4	0.4		0.0015 U				0.0017 U		0.0014 U				0.002 U		0.0018 U		0.002 U	
Chloromethane	74-87-3					0.004 U				0.0045 U		0.0038 U				0.0053 U		0.0047 U		0.0052 U	
cis-1,2-Dichloroethene	156-59-2	0.3	0.3	0.3		0.001 U				0.0011 U		0.00095 U				0.0013 U		0.0012 U		0.0013 U	
cis-1,3-Dichloropropene	10061-01-5	0.01	0.01	0.01		0.0005 U				0.00056 U		0.00048 U				0.00066 U		0.00059 U		0.00066 U	
Dibromochloromethane	124-48-1	0.005	0.005	0.005		0.001 U				0.0011 U		0.00095 U				0.0013 U		0.0012 U		0.0013 U	
Dibromomethane	74-95-3					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
Dichlorodifluoromethane	75-71-8					0.01 U				0.011 U		0.0095 U				0.013 U		0.012 U		0.013 U	
Diethyl ether	60-29-7					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U		0.0026 U	
Diisopropyl Ether	108-20-3					0.002 U				0.0023 U		0.0019 U				0.0026 U		0.0024 U			

Table 1
Summary of Soil Analytical Results
Preliminary Site Investigation and Notification Report
John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts



ANALYTE	CAS	SAMPLE ID:			B-9 (0-0.5)	B-9 (0.5-5)	B-10 (0-0.5)	B-10 (0.5-5)	B-11 (0-0.5)	B-11 (0.5-5)	B-12 (0-0.5)	B-12 (0.5-5)	B-13 (0-0.5)	B-13 (3-5)	B-14 (0-0.5)	B-14 (2-4)	B-15 (0-1)	B-15 (0-3)	B-16 (0-1)	B-16 (0-3)	
		LAB ID:			L2475966-17	L2475966-18	L2475966-19	L2475966-20	L2475966-21	L2475966-22	L2475966-23	L2475966-24	L2475966-25	L2475966-26	L2475966-27	L2475966-28	L2513851-06	L2513851-07	L2513851-08	L2513851-09	
		COLLECTION DATE:			12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	3/11/2025	3/11/2025	3/11/2025	3/11/2025
		SAMPLE MATRIX:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		REGULATORY STANDARDS (mg/kg)																			
S-1/GW-1	S-2/GW-1	S-3/GW-1																			
MCP VOLATILE ORGANICS BY EPA 5035																					
1,1,1,2-Tetrachloroethane	630-20-6	0.1	0.1	0.1		0.00055 U											-	-	-	-	
1,1,1-Trichloroethane	71-55-6	30	30	30		0.00055 U											-	-	-	-	
1,1,2,2-Tetrachloroethane	79-34-5	0.005	0.005	0.005		0.00055 U											-	-	-	-	
1,1,2-Trichloroethane	79-00-5	0.1	0.1	0.1		0.0011 U											-	-	-	-	
1,1-Dichloroethane	75-34-3	0.4	0.4	0.4		0.0011 U											-	-	-	-	
1,1-Dichloroethene	75-35-4	3	3	3		0.0011 U											-	-	-	-	
1,1-Dichloropropene	563-58-6					0.00055 U											-	-	-	-	
1,2,3-Trichlorobenzene	87-61-6					0.0022 U											-	-	-	-	
1,2,3-Trichloropropane	96-18-4					0.0022 U											-	-	-	-	
1,2,4-Trichlorobenzene	120-82-1	2	2	2		0.0022 U											-	-	-	-	
1,2,4-Trimethylbenzene	95-63-6					0.0022 U											-	-	-	-	
1,2-Dibromo-3-chloropropane	96-12-8					0.0033 U											-	-	-	-	
1,2-Dibromoethane	106-93-4	0.1	0.1	0.1		0.0011 U											-	-	-	-	
1,2-Dichlorobenzene	95-50-1	9	9	9		0.0022 U											-	-	-	-	
1,2-Dichloroethane	107-06-2	0.1	0.1	0.1		0.0011 U											-	-	-	-	
1,2-Dichloroethene, Total	540-59-0					0.0011 U											-	-	-	-	
1,2-Dichloropropane	78-87-5	0.1	0.1	0.1		0.0011 U											-	-	-	-	
1,3,5-Trimethylbenzene	108-67-8					0.0022 U											-	-	-	-	
1,3-Dichlorobenzene	541-73-1	3	3	3		0.0022 U											-	-	-	-	
1,3-Dichloropropane	142-28-9					0.0022 U											-	-	-	-	
1,3-Dichloropropene, Total	542-75-6	0.01	0.01	0.01		0.00055 U											-	-	-	-	
1,4-Dichlorobenzene	106-46-7	0.7	0.7	0.7		0.0022 U											-	-	-	-	
1,4-Dioxane	123-91-1	0.2	0.2	0.2		0.087 U											-	-	-	-	
2,2-Dichloropropane	594-20-7					0.0022 U											-	-	-	-	
2-Hexanone	591-78-6					0.011 U											-	-	-	-	
Acetone	67-64-1	6	6	6		0.027 U											-	-	-	-	
Benzene	71-43-2	2	2	2		0.00055 U											-	-	-	-	
Bromobenzene	108-86-1					0.0022 U											-	-	-	-	
Bromochloromethane	74-97-5					0.0022 U											-	-	-	-	
Bromodichloromethane	75-27-4	0.1	0.1	0.1		0.00055 U											-	-	-	-	
Bromoform	75-25-2	0.1	0.1	0.1		0.0044 U											-	-	-	-	
Bromomethane	74-83-9	0.5	0.5	0.5		0.0022 U											-	-	-	-	
Carbon disulfide	75-15-0					0.011 U											-	-	-	-	
Carbon tetrachloride	56-23-5	10	10	10		0.0011 U											-	-	-	-	
Chlorobenzene	108-90-7	1	1	1		0.00055 U											-	-	-	-	
Chloroethane	75-00-3					0.0022 U											-	-	-	-	
Chloroform	67-66-3	0.4	0.4	0.4		0.0016 U											-	-	-	-	
Chloromethane	74-87-3					0.0044 U											-	-	-	-	
cis-1,2-Dichloroethene	156-59-2	0.3	0.3	0.3		0.0011 U											-	-	-	-	
cis-1,3-Dichloropropene	10061-01-5	0.01	0.01	0.01		0.00055 U											-	-	-	-	
Dibromochloromethane	124-48-1	0.005	0.005	0.005		0.0011 U											-	-	-	-	
Dibromomethane	74-95-3					0.0022 U											-	-	-	-	
Dichlorodifluoromethane	75-71-8					0.011 U											-	-	-	-	
Diethyl ether	60-29-7					0.0022 U											-	-	-	-	
Diisopropyl Ether	108-20-3					0.0022 U											-	-	-	-	
Ethylbenzene	100-41-4	40	40	40		0.0011 U											-	-	-	-	
Ethyl-Tert-Butyl-Ether	637-92-3					0.0022 U											-	-	-	-	
Hexachlorobutadiene	87-68-3	30	100	100		0.0044 U											-	-	-	-	
Isopropylbenzene	98-82-8					0.0011 U											-	-	-	-	
Methyl ethyl ketone	78-93-3	4	4	4		0.011 U											-	-	-	-	
Methyl isobutyl ketone	108-10-1	0.4	0.4	0.4		0.011 U											-	-	-	-	
Methyl tert butyl ether	1634-04-4	0.1	0.1	0.1		0.0022 U											-	-	-	-	
Methylene chloride	75-09-2	0.1	0.1	0.1		0.0055 U											-	-	-	-	
Naphthalene	91-20-3	4	4	4		0.0044 U											-	-	-	-	
n-Butylbenzene	104-51-8					0.0011 U											-	-	-	-	
n-Propylbenzene	103-65-1					0.0011 U											-	-	-	-	
o-Chlorotoluene	95-49-8					0.0022 U											-	-	-	-	
o-Xylene	95-47-6	400	400	400		0.0011 U											-	-	-	-	
p/m-Xylene	179601-23-1	400	400	400		0.0022 U											-	-	-	-	
p-Chlorotoluene	106-43-4					0.0022 U											-	-	-	-	
p-Isopropyltoluene	99-87-6					0.0011 U											-	-	-	-	
sec-Butylbenzene	135-98-8					0.0011 U											-	-	-	-	
Styrene	100-42-5	3	3	3		0.0011 U											-	-	-	-	
tert-Butylbenzene	98-06-6					0.0022 U											-	-	-	-	
Tertiary-Amyl Methyl Ether	994-05-8					0.0022 U											-	-	-	-	
Tetrachloroethene	127-18-4	1	1	1		0.00055 U											-	-	-	-	
Tetrahydrofuran	109-99-9					0.0044 U											-	-	-	-	
Toluene	108-88-3	30	30	30		0.0011 U											-	-	-	-	
trans-1,2-Dichloroethene	156-60-5	1	1	1		0.0016 U											-	-	-	-	
trans-1,3-Dichloropropene	10061-02-6	0.01	0.01	0.01		0.0011 U											-	-	-	-	
Trichloroethene	79-01-6	0.3	0.3	0.3		0.00055 U															

Table 1
Summary of Soil Analytical Results
Preliminary Site Investigation and Notification Report
John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts



ANALYTE	CAS	SAMPLE ID:			B-17 (0-1)	B-17 (0-3)	B-18 (0-3)	B-19 (0-1)	B-19 (22-25)	B-20 (0-1)	B-20 (22-25)	B-21 (0-1)	B-21 (0-3)	B-22 (0-1)	B-22 (0-3)	B-23 (0-1)	B-23 (0-3)	B-24 (0-1)	B-24 (0-3)	B-25 (0-1)	
		LAB ID:			L2513851-10	L2513851-11	L2513851-12	L2513851-21	L2513851-22	L2513851-19	L2513851-20	L2513851-13	L2513851-14	L2513851-15	L2513851-16	L2513851-17	L2513851-18	L2513851-01	L2513851-02	L2513851-03	
		COLLECTION DATE:			3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	
		SAMPLE MATRIX:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		REGULATORY STANDARDS (mg/kg)																			
S-1/GW-1	S-2/GW-1	S-3/GW-1																			
MCP VOLATILE ORGANICS BY EPA 5035																					
1,1,1,2-Tetrachloroethane	630-20-6	0.1	0.1	0.1	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,1,1-Trichloroethane	71-55-6	30	30	30	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	79-34-5	0.005	0.005	0.005	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	79-00-5	0.1	0.1	0.1	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethane	75-34-3	0.4	0.4	0.4	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethene	75-35-4	3	3	3	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,1-Dichloropropene	563-58-6				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	87-61-6				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,2,3-Trichloropropane	96-18-4				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	120-82-1	2	2	2	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	95-63-6				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	96-12-8				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,2-Dibromoethane	106-93-4	0.1	0.1	0.1	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,2-Dichlorobenzene	95-50-1	9	9	9	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,2-Dichloroethane	107-06-2	0.1	0.1	0.1	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,2-Dichloroethene, Total	540-59-0				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,2-Dichloropropane	78-87-5	0.1	0.1	0.1	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	108-67-8				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	541-73-1	3	3	3	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,3-Dichloropropane	142-28-9				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,3-Dichloropropene, Total	542-75-6	0.01	0.01	0.01	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	106-46-7	0.7	0.7	0.7	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
1,4-Dioxane	123-91-1	0.2	0.2	0.2	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
2,2-Dichloropropane	594-20-7				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
2-Hexanone	591-78-6				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Acetone	67-64-1	6	6	6	-	-	-	-	0.18	-	0.99	-	-	-	-	-	-	-	-	-	
Benzene	71-43-2	2	2	2	-	-	-	-	0.00074	-	ND	-	-	-	-	-	-	-	-	-	
Bromobenzene	108-86-1				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Bromochloromethane	74-97-5				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	75-27-4	0.1	0.1	0.1	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Bromoform	75-25-2	0.1	0.1	0.1	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Bromomethane	74-83-9	0.5	0.5	0.5	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Carbon disulfide	75-15-0				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Carbon tetrachloride	56-23-5	10	10	10	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	1	1	1	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Chloroethane	75-00-3				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Chloroform	67-66-3	0.4	0.4	0.4	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Chloromethane	74-87-3				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
cis-1,2-Dichloroethene	156-59-2	0.3	0.3	0.3	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
cis-1,3-Dichloropropene	10061-01-5	0.01	0.01	0.01	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	124-48-1	0.005	0.005	0.005	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Dibromomethane	74-95-3				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane	75-71-8				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Diethyl ether	60-29-7				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Diisopropyl Ether	108-20-3				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Ethylbenzene	100-41-4	40	40	40	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Ethyl-Tert-Butyl-Ether	637-92-3				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Hexachlorobutadiene	87-68-3	30	100	100	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Isopropylbenzene	98-82-8				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Methyl ethyl ketone	78-93-3	4	4	4	-	-	-	-	0.046	-	0.24	-	-	-	-	-	-	-	-	-	
Methyl isobutyl ketone	108-10-1	0.4	0.4	0.4	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Methyl tert butyl ether	1634-04-4	0.1	0.1	0.1	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Methylene chloride	75-09-2	0.1	0.1	0.1	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Naphthalene	91-20-3	4	4	4	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
n-Butylbenzene	104-51-8				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
n-Propylbenzene	103-65-1				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
o-Chlorotoluene	95-49-8				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
o-Xylene	95-47-6	400	400	400	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
p/m-Xylene	179601-23-1	400	400	400	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
p-Chlorotoluene	106-43-4				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
p-Isopropyltoluene	99-87-6				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
sec-Butylbenzene	135-98-8				-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
Styrene	100-42-5	3	3	3	-	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	
tert-Butylbenzene	98-06-6		</																		

Table 1
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Preliminary Site Investigation and Notification Report
John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts



ANALYTE	CAS	SAMPLE ID:			B-26 (0-1)	B-26 (0-3)	MW-1 (0-3)	MW-2 (0-3)	MW-3 (0-3)	MW-4 (0-3)	MW-5 (0-3)	MW-5 (10-11)	MW-5 (10-11)	MW-6 (0-1)	MW-6 (0-4)
		LAB ID:			L2513851-04	L2513851-05	L2513851-23	L2514164-05	L2514164-03	L2514164-04	L2514164-06	L2514164-07	L2514164-07 R1	L2514164-01	L2514164-02
		COLLECTION DATE:			3/11/2025	3/11/2025	3/11/2025	3/12/2025	3/12/2025	3/12/2025	3/12/2025	3/12/2025	3/12/2025	3/12/2025	3/12/2025
		SAMPLE MATRIX:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		REGULATORY STANDARDS (mg/kg)													
S-1/GW-1	S-2/GW-1	S-3/GW-1													
MCP VOLATILE ORGANICS BY EPA 5035															
1,1,1,2-Tetrachloroethane	630-20-6	0.1	0.1	0.1	-	-	-	-	-	-	-	ND	-	-	-
1,1,1-Trichloroethane	71-55-6	30	30	30	-	-	-	-	-	-	-	ND	-	-	-
1,1,2,2-Tetrachloroethane	79-34-5	0.005	0.005	0.005	-	-	-	-	-	-	-	ND	-	-	-
1,1,2-Trichloroethane	79-00-5	0.1	0.1	0.1	-	-	-	-	-	-	-	ND	-	-	-
1,1-Dichloroethane	75-34-3	0.4	0.4	0.4	-	-	-	-	-	-	-	ND	-	-	-
1,1-Dichloroethene	75-35-4	3	3	3	-	-	-	-	-	-	-	ND	-	-	-
1,1-Dichloropropene	563-58-6				-	-	-	-	-	-	-	ND	-	-	-
1,2,3-Trichlorobenzene	87-61-6				-	-	-	-	-	-	-	ND	-	-	-
1,2,3-Trichloropropane	96-18-4				-	-	-	-	-	-	-	ND	-	-	-
1,2,4-Trichlorobenzene	120-82-1	2	2	2	-	-	-	-	-	-	-	ND	-	-	-
1,2,4-Trimethylbenzene	95-63-6				-	-	-	-	-	-	-	ND	-	-	-
1,2-Dibromo-3-chloropropane	96-12-8				-	-	-	-	-	-	-	ND	-	-	-
1,2-Dibromoethane	106-93-4	0.1	0.1	0.1	-	-	-	-	-	-	-	ND	-	-	-
1,2-Dichlorobenzene	95-50-1	9	9	9	-	-	-	-	-	-	-	ND	-	-	-
1,2-Dichloroethane	107-06-2	0.1	0.1	0.1	-	-	-	-	-	-	-	ND	-	-	-
1,2-Dichloroethene, Total	540-59-0				-	-	-	-	-	-	-	ND	-	-	-
1,2-Dichloropropane	78-87-5	0.1	0.1	0.1	-	-	-	-	-	-	-	ND	-	-	-
1,3,5-Trimethylbenzene	108-67-8				-	-	-	-	-	-	-	ND	-	-	-
1,3-Dichlorobenzene	541-73-1	3	3	3	-	-	-	-	-	-	-	ND	-	-	-
1,3-Dichloropropane	142-28-9				-	-	-	-	-	-	-	ND	-	-	-
1,3-Dichloropropene, Total	542-75-6	0.01	0.01	0.01	-	-	-	-	-	-	-	ND	-	-	-
1,4-Dichlorobenzene	106-46-7	0.7	0.7	0.7	-	-	-	-	-	-	-	ND	-	-	-
1,4-Dioxane	123-91-1	0.2	0.2	0.2	-	-	-	-	-	-	-	ND	-	-	-
2,2-Dichloropropane	594-20-7				-	-	-	-	-	-	-	ND	-	-	-
2-Hexanone	591-78-6				-	-	-	-	-	-	-	ND	-	-	-
Acetone	67-64-1	6	6	6	-	-	-	-	-	-	-	0.75	-	-	-
Benzene	71-43-2	2	2	2	-	-	-	-	-	-	-	ND	-	-	-
Bromobenzene	108-86-1				-	-	-	-	-	-	-	ND	-	-	-
Bromochloromethane	74-97-5				-	-	-	-	-	-	-	ND	-	-	-
Bromodichloromethane	75-27-4	0.1	0.1	0.1	-	-	-	-	-	-	-	ND	-	-	-
Bromoform	75-25-2	0.1	0.1	0.1	-	-	-	-	-	-	-	ND	-	-	-
Bromomethane	74-83-9	0.5	0.5	0.5	-	-	-	-	-	-	-	ND	-	-	-
Carbon disulfide	75-15-0				-	-	-	-	-	-	-	ND	-	-	-
Carbon tetrachloride	56-23-5	10	10	10	-	-	-	-	-	-	-	ND	-	-	-
Chlorobenzene	108-90-7	1	1	1	-	-	-	-	-	-	-	ND	-	-	-
Chloroethane	75-00-3				-	-	-	-	-	-	-	ND	-	-	-
Chloroform	67-66-3	0.4	0.4	0.4	-	-	-	-	-	-	-	ND	-	-	-
Chloromethane	74-87-3				-	-	-	-	-	-	-	ND	-	-	-
cis-1,2-Dichloroethene	156-59-2	0.3	0.3	0.3	-	-	-	-	-	-	-	ND	-	-	-
cis-1,3-Dichloropropene	10061-01-5	0.01	0.01	0.01	-	-	-	-	-	-	-	ND	-	-	-
Dibromochloromethane	124-48-1	0.005	0.005	0.005	-	-	-	-	-	-	-	ND	-	-	-
Dibromomethane	74-95-3				-	-	-	-	-	-	-	ND	-	-	-
Dichlorodifluoromethane	75-71-8				-	-	-	-	-	-	-	ND	-	-	-
Diethyl ether	60-29-7				-	-	-	-	-	-	-	ND	-	-	-
Diisopropyl Ether	108-20-3				-	-	-	-	-	-	-	ND	-	-	-
Ethylbenzene	100-41-4	40	40	40	-	-	-	-	-	-	-	ND	-	-	-
Ethyl-Tert-Butyl-Ether	637-92-3				-	-	-	-	-	-	-	ND	-	-	-
Hexachlorobutadiene	87-68-3	30	100	100	-	-	-	-	-	-	-	ND	-	-	-
Isopropylbenzene	98-82-8				-	-	-	-	-	-	-	ND	-	-	-
Methyl ethyl ketone	78-93-3	4	4	4	-	-	-	-	-	-	-	ND	-	-	-
Methyl isobutyl ketone	108-10-1	0.4	0.4	0.4	-	-	-	-	-	-	-	ND	-	-	-
Methyl tert butyl ether	1634-04-4	0.1	0.1	0.1	-	-	-	-	-	-	-	ND	-	-	-
Methylene chloride	75-09-2	0.1	0.1	0.1	-	-	-	-	-	-	-	ND	-	-	-
Naphthalene	91-20-3	4	4	4	-	-	-	-	-	-	-	ND	-	-	-
n-Butylbenzene	104-51-8				-	-	-	-	-	-	-	ND	-	-	-
n-Propylbenzene	103-65-1				-	-	-	-	-	-	-	ND	-	-	-
o-Chlorotoluene	95-49-8				-	-	-	-	-	-	-	ND	-	-	-
o-Xylene	95-47-6	400	400	400	-	-	-	-	-	-	-	ND	-	-	-
p/m-Xylene	179601-23-1	400	400	400	-	-	-	-	-	-	-	ND	-	-	-
p-Chlorotoluene	106-43-4				-	-	-	-	-	-	-	ND	-	-	-
p-Isopropyltoluene	99-87-6				-	-	-	-	-	-	-	29 E	37	-	-
sec-Butylbenzene	135-98-8				-	-	-	-	-	-	-	ND	-	-	-
Styrene	100-42-5	3	3	3	-	-	-	-	-	-	-	ND	-	-	-
tert-Butylbenzene	98-06-6				-	-	-	-	-	-	-	ND	-	-	-
Tertiary-Amyl Methyl Ether	994-05-8				-	-	-	-	-	-	-	ND	-	-	-
Tetrachloroethene	127-18-4	1	1	1	-	-	-	-	-	-	-	ND	-	-	-
Tetrahydrofuran	109-99-9				-	-	-	-	-	-	-	ND	-	-	-
Toluene	108-88-3	30	30	30	-	-	-	-	-	-	-	0.33	-	-	-
trans-1,2-Dichloroethene	156-60-5	1	1	1	-	-	-	-	-	-	-	ND	-	-	-
trans-1,3-Dichloropropene	10061-02-6	0.01	0.01	0.01	-	-	-	-	-	-	-	ND	-	-	-
Trichloroethene	79-01-6	0.3	0.3	0.3	-	-	-	-	-	-	-	ND	-	-	-
Trichlorofluoromethane	75-69-4				-	-	-	-	-	-	-	ND	-	-	-
Vinyl chloride	75-01-4	0.3	0.9	0.9	-	-	-	-	-	-	-	ND	-	-	-
Xylenes, Total	1330-20-7	400	400	400	-	-	-	-	-	-	-	ND	-	-	-
SUM					-	-	-	-	-	-	-	30.08	37	-	-

Table 1
Summary of Soil Analytical Results
Preliminary Site Investigation and Notification Report
John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts



ANALYTE	CAS	SAMPLE ID:			B-1 (0-0.5)	B-1 (0.5-5)	B-2 (0-0.5)	B-2 (0.5-5)	B-3 (0-0.5)	B-3 (0.5-5)	B-4 (0-0.5)	B-4 (0.5-5)	B-5 (0-0.5)	B-5 (0.5-5)	B-6 (0-0.5)	B-6 (0.5-5)	B-7 (0-0.5)	B-7 (0.5-5)	B-8 (0-0.5)	B-8 (0.5-5)	
		LAB ID:			L2475966-01	L2475966-02	L2475966-03	L2475966-04	L2475966-05	L2475966-06	L2475966-07	L2475966-08	L2475966-09	L2475966-10	L2475966-11	L2475966-12	L2475966-13	L2475966-14	L2475966-15	L2475966-16	
		COLLECTION DATE:			12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	
		SAMPLE MATRIX:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		REGULATORY STANDARDS (mg/kg)																			
		S-1/GW-1	S-2/GW-1	S-3/GW-1																	
MCP POLYCHLORINATED BIPHENYLS																					
Aroclor 1016	12674-11-2	1	4	4	0.0575 U	0.0556 U	0.0568 U	0.0552 U	0.0747 U	1.22 U	0.0519 U	0.0507 U	0.0695 U	0.0527 U	0.0645 U	0.054 U	0.0601 U	0.0606 U	0.0707 U	0.0568 U	
Aroclor 1221	11104-28-2	1	4	4	0.0575 U	0.0556 U	0.0568 U	0.0552 U	0.0747 U	1.22 U	0.0519 U	0.0507 U	0.0695 U	0.0527 U	0.0645 U	0.054 U	0.0601 U	0.0606 U	0.0707 U	0.0568 U	
Aroclor 1232	11141-16-5	1	4	4	0.0575 U	0.0556 U	0.0568 U	0.0552 U	0.0747 U	1.22 U	0.0519 U	0.0507 U	0.0695 U	0.0527 U	0.0645 U	0.054 U	0.0601 U	0.0606 U	0.0707 U	0.0568 U	
Aroclor 1242	53469-21-9	1	4	4	0.0575 U	0.0556 U	0.0568 U	0.0552 U	0.0747 U	1.22 U	0.0519 U	0.0507 U	0.0695 U	0.0527 U	0.0645 U	0.054 U	0.0601 U	0.0606 U	0.0707 U	0.0568 U	
Aroclor 1248	12672-29-6	1	4	4	0.0575 U	0.0556 U	0.0568 U	0.0552 U	0.0747 U	1.22 U	0.0519 U	0.0507 U	0.0695 U	0.0527 U	0.0645 U	0.054 U	0.0601 U	0.0606 U	0.0707 U	0.0568 U	
Aroclor 1254	11097-69-1	1	4	4	0.0575 U	0.0556 U	0.0568 U	0.0552 U	0.0747 U	1.22 U	0.0519 U	0.0507 U	0.0695 U	0.0527 U	0.0645 U	0.054 U	0.0601 U	0.0606 U	0.0707 U	0.0568 U	
Aroclor 1260	11096-82-5	1	4	4	0.0575 U	0.0556 U	0.0568 U	0.0552 U	0.0747 U	1.37	0.0519 U	0.0507 U	0.0695 U	0.0527 U	0.0645 U	0.054 U	0.0601 U	0.0606 U	0.0707 U	0.0568 U	
Aroclor 1262	37324-23-5	1	4	4	0.0575 U	0.0556 U	0.0568 U	0.0552 U	0.0747 U	1.22 U	0.0519 U	0.0507 U	0.0695 U	0.0527 U	0.0645 U	0.054 U	0.0601 U	0.0606 U	0.0707 U	0.0568 U	
Aroclor 1268	11100-14-4	1	4	4	0.0575 U	0.0563	0.0568 U	0.0552 U	0.0747 U	2.5	0.0519 U	0.0507 U	0.0695 U	0.0527 U	0.0645 U	0.054 U	0.0601 U	0.0606 U	0.0707 U	0.0568 U	
PCBs, Total	1336-36-3	1	4	4	0.0575 U	0.0563	0.0568 U	0.0552 U	0.0747 U	3.87	0.0519 U	0.0507 U	0.0695 U	0.0527 U	0.0645 U	0.054 U	0.0601 U	0.0606 U	0.0707 U	0.0568 U	
EXTRACTABLE PETROLEUM HYDROCARBONS																					
2-Methylnaphthalene	91-57-6	0.7	1	1	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.382 U	0.462 U	0.379 U	
Acenaphthene	83-32-9	4	4	4	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.382 U	0.462 U	0.379 U	
Acenaphthylene	208-96-8	2	2	2	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.382 U	0.462 U	0.379 U	
Anthracene	120-12-7	1000	3000	5000	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.382 U	0.462 U	0.379 U	
Benzo(a)anthracene	56-55-3	20	300	2000	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.985	0.462 U	0.379 U	
Benzo(a)pyrene	50-32-8	2	30	30	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	1.52	0.462 U	0.379 U	
Benzo(b)fluoranthene	205-99-2	20	300	2000	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	2.01	0.462 U	0.379 U	
Benzo(ghi)perylene	191-24-2	1000	3000	5000	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	1.22	0.462 U	0.379 U	
Benzo(k)fluoranthene	207-08-9	200	3000	5000	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.648	0.462 U	0.379 U	
C11-C22 Aromatics	C11-C22-ALPHA-UJ				12.2	15.8	7.89 U	8.84	12	17.4	7.06 U	6.96 U	9.65 U	7.1 U	14.7	12.2	7.98 U	29	9.24 U	9.91	
C11-C22 Aromatics, Adjusted	C11-C22-ALPHA-J	1000	1000	1000	12.2	15.8	7.89 U	8.84	12	17.4	7.06 U	6.96 U	9.65 U	7.1 U	14.7	12.2	7.98 U	18.3	9.24 U	9.91	
C19-C36 Aliphatics	C19-C36-ALPHA-UJ	3000	5000	5000	7.95 U	39.7	7.89 U	10.3	9.8 U	8.58 U	7.06 U	6.96 U	9.65 U	7.1 U	8.44 U	8.92	7.98 U	14.5	9.24 U	7.58 U	
C9-C18 Aliphatics	C9-C18-ALPHA-UJ	1000	3000	5000	7.95 U	7.48 U	7.89 U	7.47 U	9.8 U	8.58 U	7.06 U	6.96 U	9.65 U	7.1 U	8.44 U	7.54 U	7.98 U	7.63 U	9.24 U	7.58 U	
Chrysene	218-01-9	200	3000	5000	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	1.24	0.462 U	0.379 U	
Dibenzo(a,h)anthracene	53-70-3	2	30	200	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.382 U	0.462 U	0.379 U	
Fluoranthene	206-44-0	1000	3000	5000	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	1.17	0.462 U	0.379 U	
Fluorene	86-73-7	1000	3000	5000	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.382 U	0.462 U	0.379 U	
Indeno(1,2,3-cd)Pyrene	193-39-5	20	300	2000	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.983	0.462 U	0.379 U	
Naphthalene	91-20-3	4	4	4	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.382 U	0.462 U	0.379 U	
Phenanthrene	85-01-8	10	20	20	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.382 U	0.462 U	0.379 U	
Pyrene	129-00-0	1000	3000	5000	0.398 U	0.374 U	0.395 U	0.374 U	0.49 U	0.429 U	0.353 U	0.348 U	0.482 U	0.355 U	0.422 U	0.377 U	0.399 U	0.93	0.462 U	0.379 U	
MCP TOTAL METALS																					
Antimony, Total	7440-36-0	20	40	40	4.77 U	8.35	4.74 U	4.48 U	6.03 U	50.8 U	4.26 U	5.02	5.86 U	4.37 U	4.86 U	13.7	4.71 U	4.58 U	5.68 U	14.1	
Arsenic, Total	7440-38-2	20	20	60	3.99	5.45	0.948 U	9.23	2.4	28.8	0.853 U	8.98	1.2	1.65	6.01	25.8	0.941 U	2.91	2.92	35.4	
Barium, Total	7440-39-3	1000	3000	5000	95.7	143	51	259	65.4	603	68.2	168	18.7	14	81.8	482	91.6	51.2	39.9	359	
Beryllium, Total	7440-41-7	100	200	200	0.477 U	0.441 U	0.474 U	0.448 U	0.603 U	5.08 U	0.426 U	0.418 U	0.586 U	0.437 U	0.486 U	0.889 U	0.471 U	0.458 U	0.568 U	0.909 U	
Cadmium, Total	7440-43-9	80	80	80	0.954 U	1.1	0.948 U	2.14	1.21 U	10.2 U	0.853 U	2.37	1.17 U	0.874 U	2.36	5.67	0.941 U	0.917 U	1.14 U	3.37	
Chromium, Total	7440-47-3	100	200	200	17.6	36.1	31.7	23.6	26.4	87.9	41.3	16	15.1	6.16	15.7	32	54.3	6.4	12.2	30.6	
Lead, Total	7439-92-1	200	600	600	190	225	7.53	408	65.3	1710	4.26 U	370	7.34	13.8	330	1220	12.3	99.4	45.2	746	
Mercury, Total	7439-97-6	20	40	40	0.164	1.15	0.084 U	0.158	0.114 U	0.145	0.072 U	0.232	0.106 U	0.077 U	0.418	0.646	0.081 U	0.133	0.098 U	1.34	
Nickel, Total	7440-02-0	700	1000	1000	8.28	11.3	14.1	19.5	12	148	18	40.7	7.26	3.14	10.2	37.2	24.2	5.17	7.16	30.1	
Selenium, Total	7782-49-2	400	800	800	4.77 U	4.41 U	4.74 U	4.48 U	6.03 U	50.8 U	4.26 U	4.18 U	5.86 U	4.37 U	4.86 U	8.89 U	4.71 U	4.58 U	5.68 U	9.09 U	
Silver, Total	7440-22-4	100	200	200	0.954 U	3.72	0.948 U	0.896 U	1.21 U	10.2 U											

ANALYTE	CAS	SAMPLE ID:			B-9 (0-0.5)	B-9 (0.5-5)	B-10 (0-0.5)	B-10 (0.5-5)	B-11 (0-0.5)	B-11 (0.5-5)	B-12 (0-0.5)	B-12 (0.5-5)	B-13 (0-0.5)	B-13 (3-5)	B-14 (0-0.5)	B-14 (2-4)	B-15 (0-1)	B-15 (0-3)	B-16 (0-1)	B-16 (0-3)	
		LAB ID:			L2475966-17	L2475966-18	L2475966-19	L2475966-20	L2475966-21	L2475966-22	L2475966-23	L2475966-24	L2475966-25	L2475966-26	L2475966-27	L2475966-28	L2513851-06	L2513851-07	L2513851-08	L2513851-09	
		COLLECTION DATE:			12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	12/20/2024	3/11/2025	3/11/2025	3/11/2025	3/11/2025
		SAMPLE MATRIX:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		REGULATORY STANDARDS (mg/kg)																			
		S-1/GW-1	S-2/GW-1	S-3/GW-1																	
MCP POLYCHLORINATED BIPHENYLS																					
Aroclor 1016	12674-11-2	1	4	4	0.092 U	0.0507 U	0.0721 U	0.0566 U	0.0846 U	0.0628 U	0.0628 U	0.0568 U	0.057 U	0.0652 U	0.0567 U	0.0726 U	ND	ND	ND	ND	
Aroclor 1221	11104-28-2	1	4	4	0.092 U	0.0507 U	0.0721 U	0.0566 U	0.0846 U	0.0628 U	0.0628 U	0.0568 U	0.057 U	0.0652 U	0.0567 U	0.0726 U	ND	ND	ND	ND	
Aroclor 1232	11141-16-5	1	4	4	0.092 U	0.0507 U	0.0721 U	0.0566 U	0.0846 U	0.0628 U	0.0628 U	0.0568 U	0.057 U	0.0652 U	0.0567 U	0.0726 U	ND	ND	ND	ND	
Aroclor 1242	53469-21-9	1	4	4	0.092 U	0.0507 U	0.0721 U	0.0566 U	0.0846 U	0.0628 U	0.0628 U	0.0568 U	0.057 U	0.0652 U	0.0567 U	0.0726 U	ND	ND	ND	ND	
Aroclor 1248	12672-29-6	1	4	4	0.092 U	0.0507 U	0.0721 U	0.0566 U	0.0846 U	0.0628 U	0.0628 U	0.0568 U	0.057 U	0.0652 U	0.0567 U	0.0726 U	ND	ND	ND	ND	
Aroclor 1254	11097-69-1	1	4	4	0.092 U	0.0507 U	0.0721 U	0.0566 U	0.0846 U	0.0628 U	0.122	0.56	0.057 U	0.0652 U	0.0567 U	0.0726 U	ND	ND	ND	ND	
Aroclor 1260	11096-82-5	1	4	4	0.092 U	0.0507 U	0.0721 U	0.0566 U	0.0846 U	0.0628 U	0.0628 U	0.0568 U	0.057 U	0.0652 U	0.0567 U	0.0726 U	ND	ND	ND	ND	
Aroclor 1262	37324-23-5	1	4	4	0.092 U	0.0507 U	0.0721 U	0.0566 U	0.0846 U	0.0628 U	0.0628 U	0.0568 U	0.057 U	0.0652 U	0.0567 U	0.0726 U	ND	ND	ND	ND	
Aroclor 1268	11100-14-4	1	4	4	0.092 U	0.0507 U	0.0721 U	0.0566 U	0.0846 U	0.0628 U	0.0628 U	0.0568 U	0.057 U	0.0652 U	0.0567 U	0.0726 U	ND	ND	ND	ND	
PCBs, Total	1336-36-3	1	4	4	0.092 U	0.0507 U	0.0721 U	0.0566 U	0.0846 U	0.0628 U	0.122	0.56	0.057 U	0.0652 U	0.0567 U	0.0726 U	ND	ND	ND	ND	
EXTRACTABLE PETROLEUM HYDROCARBONS																					
2-Methylnaphthalene	91-57-6	0.7	1	1	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.42 U	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Acenaphthene	83-32-9	4	4	4	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.42 U	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Acenaphthylene	208-96-8	2	2	2	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.42 U	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Anthracene	120-12-7	1000	3000	5000	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.42 U	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Benzo(a)anthracene	56-55-3	20	300	2000	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.582	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Benzo(a)pyrene	50-32-8	2	30	30	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	1.06	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Benzo(b)fluoranthene	205-99-2	20	300	2000	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	1.06	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Benzo(ghi)perylene	191-24-2	1000	3000	5000	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.873	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Benzo(k)fluoranthene	207-08-9	200	3000	5000	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.42 U	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
C11-C22 Aromatics	C11-C22-ALPHA-UJ				30.2	6.86 U	16.6	7.89 U	11.7 U	40	9.51	41	10.1	22.1	7.72 U	9.81 U	ND	ND	ND	ND	
C11-C22 Aromatics, Adjusted	C11-C22-ALPHA-J	1000	1000	1000	29.5	6.86 U	16.6	7.89 U	11.7 U	31.9	9.51	41	10.1	21.6	7.72 U	9.81 U	ND	ND	ND	ND	
C19-C36 Aliphatics	C19-C36-ALPHA-UJ	3000	5000	5000	28.5	6.86 U	9.64 U	7.89 U	11.7 U	31.2	8.83 U	50.2	7.57 U	22.6	7.72 U	9.81 U	ND	ND	ND	ND	
C9-C18 Aliphatics	C9-C18-ALPHA-UJ	1000	3000	5000	12.5 U	6.86 U	9.64 U	7.89 U	11.7 U	8.4 U	8.83 U	7.82 U	7.57 U	8.59 U	7.72 U	9.81 U	ND	ND	ND	ND	
Chrysene	218-01-9	200	3000	5000	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.8	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	53-70-3	2	30	200	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.42 U	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Fluoranthene	206-44-0	1000	3000	5000	0.678	0.343 U	0.482 U	0.394 U	0.586 U	1.22	0.442 U	0.391 U	0.379 U	0.481	0.386 U	0.49 U	ND	ND	ND	ND	
Fluorene	86-73-7	1000	3000	5000	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.42 U	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Indeno(1,2,3-cd)Pyrene	193-39-5	20	300	2000	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.713	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Naphthalene	91-20-3	4	4	4	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.42 U	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Phenanthrene	85-01-8	10	20	20	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	0.705	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
Pyrene	129-00-0	1000	3000	5000	0.623 U	0.343 U	0.482 U	0.394 U	0.586 U	1.09	0.442 U	0.391 U	0.379 U	0.43 U	0.386 U	0.49 U	ND	ND	ND	ND	
MCP TOTAL METALS																					
Antimony, Total	7440-36-0	20	40	40	7.63 U	4.17 U	5.85 U	5.11	6.87 U	2660	12.4	7.97	4.55 U	6.54	4.6 U	5.81 U	ND	ND	ND	ND	
Arsenic, Total	7440-38-2	20	20	60	3.22	1.96	6.94	4.77	16.7	11.8	5.66	27.3	2.94	14.8	1.77	6.3	1.89	1.07	2.55	2.86	
Barium, Total	7440-39-3	1000	3000	5000	21.8	7.34	90.7	139	169	302	55.9	511	19.1	301	16.6	33.3	7.53	6.3	13.4	18	
Beryllium, Total	7440-41-7	100	200	200	0.763 U	0.417 U	0.585 U	0.47 U	0.687 U	0.504 U	0.516 U	0.476 U	0.455 U	0.518 U	0.46 U	0.581 U	ND	ND	ND	ND	
Cadmium, Total	7440-43-9	80	80	80	1.53 U	0.835 U	1.17 U	0.94 U	1.53	6.44	1.03 U	4.17	0.911 U	2.32	0.919 U	1.16 U	ND	ND	ND	ND	
Chromium, Total	7440-47-3	100	200	200	13.8	3.94	21	8.83	20.4	22.5	13.2	29.7	6.67	22	9.2	4.92	2.74	2.2	6.62	10.4	
Lead, Total	7439-92-1	200	600	600	41.8	4.59	320	290	601	1120	190	1610	22.2	755	22.2	31.1	ND	ND	7.25	5.95	
Mercury, Total	7439-97-6	20	40	40	0.131 U	0.079 U	0.464	0.473	0.615	0.463	0.195	0.829	0.083 U	0.543	0.083 U	0.097 U	ND	ND	ND	ND	
Nickel, Total	7440-02-0	700	1000	1000	5.41	2.44	10.5	17.3	13.7	7.28	4.94	23.1	3.58	18.6	4.08	2.91 U	ND	ND	3.14	4.46	
Selenium, Total	7782-49-2	400	800	800	7.63 U	4.17 U	5.85 U	4.7 U	6.87 U	5.04 U	5.16 U	4.76 U	4.55 U	5.18 U	4.6 U	5.81 U	ND	ND	ND	ND	
Silver, Total	7440-22-4	100	200	200	1.53 U	0.835 U	1.17 U	0.94 U	1.37 U	1.01 U	1.03 U	1.42	0.911 U	1.04 U	0.919 U	1.16 U	ND	ND	ND	ND	
Thallium, Total	7440-28-0	8	70	90	7.63 U	4.17 U	5.85 U	4.7 U	6.87 U	5.04 U	5.16 U	4.76 U	4.55 U	5.18 U	4.6 U	5.81 U	ND	ND	ND	ND	
Vanadium, Total	7440-62-2	500	800	800	12.3	8.26	13.5	8.62	17.1	13.5	13.1	14.4	10.4	16	8.4	11.3	6.51	5.32	13.4	16.2	
Zinc, Total	7440-66-6	1000	3000	5000	26.5	9.62	304	175	493	4150	128	1150	28	892	35.4	48.9	9.54	4.73	12.1	13.4	
GENERAL CHEMISTRY																					
Solids, Total	NONE				50.7	94.1	67.3	83.3	56.2	76.9	73.1	83.9	84.8	74.5	83.6	67.5	95.4	92.6	89.1	91.1	

Table 1
Summary of Soil Analytical Results
Preliminary Site Investigation and Notification Report
John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts



ANALYTE	CAS	SAMPLE ID:			B-17 (0-1)	B-17 (0-3)	B-18 (0-3)	B-19 (0-1)	B-19 (22-25)	B-20 (0-1)	B-20 (22-25)	B-21 (0-1)	B-21 (0-3)	B-22 (0-1)	B-22 (0-3)	B-23 (0-1)	B-23 (0-3)	B-24 (0-1)	B-24 (0-3)	B-25 (0-1)	
		LAB ID:			L2513851-10	L2513851-11	L2513851-12	L2513851-21	L2513851-22	L2513851-19	L2513851-20	L2513851-13	L2513851-14	L2513851-15	L2513851-16	L2513851-17	L2513851-18	L2513851-01	L2513851-02	L2513851-03	
		COLLECTION DATE:			3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	3/11/2025	
		SAMPLE MATRIX:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		REGULATORY STANDARDS (mg/kg)																			
S-1/GW-1	S-2/GW-1	S-3/GW-1																			
MCP POLYCHLORINATED BIPHENYLS																					
Aroclor 1016	12674-11-2	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1221	11104-28-2	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1232	11141-16-5	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1242	53469-21-9	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1248	12672-29-6	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1254	11097-69-1	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1260	11096-82-5	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1262	37324-23-5	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1268	11100-14-4	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCBs, Total	1336-36-3	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EXTRACTABLE PETROLEUM HYDROCARBONS																					
2-Methylnaphthalene	91-57-6	0.7	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.35	ND	
Acenaphthene	83-32-9	4	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.15	ND	
Acenaphthylene	208-96-8	2	2	2	ND	ND	ND	ND	0.987	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Anthracene	120-12-7	1000	3000	5000	ND	ND	ND	ND	3.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.19	ND	
Benzo(a)anthracene	56-55-3	20	300	2000	ND	ND	ND	ND	8.64	ND	ND	ND	ND	ND	ND	ND	ND	0.539	1.49	ND	
Benzo(a)pyrene	50-32-8	2	30	30	ND	ND	ND	ND	7.03	ND	ND	ND	ND	ND	ND	ND	ND	0.706	1.53	ND	
Benzo(b)fluoranthene	205-99-2	20	300	2000	ND	ND	ND	ND	8.26	ND	ND	ND	ND	ND	ND	ND	ND	0.832	1.85	ND	
Benzo(ghi)perylene	191-24-2	1000	3000	5000	ND	ND	ND	ND	3.49	ND	ND	ND	ND	ND	0.479	ND	ND	0.541	1.09	ND	
Benzo(k)fluoranthene	207-08-9	200	3000	5000	ND	ND	ND	ND	3.69	ND	15.1	ND	ND	ND	ND	ND	ND	ND	0.68	ND	
C11-C22 Aromatics	C11-C22-ALPHA-UJ				ND	ND	7.51	16.1	309	ND	397	ND	ND	ND	9.73	ND	ND	47.5	117	ND	
C11-C22 Aromatics, Adjusted	C11-C22-ALPHA-J	1000	1000	1000	ND	ND	7.51	16.1	212	ND	382	ND	ND	ND	9.25	ND	ND	42.3	76.7	ND	
C19-C36 Aliphatics	C19-C36-ALPHA-UJ	3000	5000	5000	ND	ND	ND	23.1	90.2	ND	146	ND	ND	7.83	ND	ND	ND	36.8	21.4	ND	
C9-C18 Aliphatics	C9-C18-ALPHA-UJ	1000	3000	5000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chrysene	218-01-9	200	3000	5000	ND	ND	ND	ND	8.65	ND	ND	ND	ND	ND	ND	ND	ND	0.603	1.76	ND	
Dibenzo(a,h)anthracene	53-70-3	2	30	200	ND	ND	ND	ND	1.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Fluoranthene	206-44-0	1000	3000	5000	ND	ND	ND	ND	17.4	ND	ND	ND	ND	ND	ND	ND	ND	0.733	3.91	ND	
Fluorene	86-73-7	1000	3000	5000	ND	ND	ND	ND	1.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.44	ND	
Indeno(1,2,3-cd)Pyrene	193-39-5	20	300	2000	ND	ND	ND	ND	3.28	ND	ND	ND	ND	ND	ND	ND	ND	0.473	0.973	ND	
Naphthalene	91-20-3	4	4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.6	ND	
Phenanthrene	85-01-8	10	20	20	ND	ND	ND	ND	12.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.17	ND	
Pyrene	129-00-0	1000	3000	5000	ND	ND	ND	ND	16.3	ND	ND	ND	ND	ND	ND	ND	ND	0.758	3.74	ND	
MCP TOTAL METALS																					
Antimony, Total	7440-36-0	20	40	40	ND	ND	ND	5.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Arsenic, Total	7440-38-2	20	20	60	2.56	3.03	4.44	17.3	6.24	3.24	ND	3.18	4.48	5.98	2.9	3.27	1.57	2.72	2.84	2.06	
Barium, Total	7440-39-3	1000	3000	5000	19.4	18.4	30.6	440	150	18.5	225	17.6	25.4	14.4	15.9	21.6	9.55	15.4	28.1	9.96	
Beryllium, Total	7440-41-7	100	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium, Total	7440-43-9	80	80	80	ND	ND	ND	3.96	1.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium, Total	7440-47-3	100	200	200	7.64	9.89	13.9	30.6	10.7	9.34	8.4	9.67	18.6	7.21	6.28	6.68	3.9	5.46	7.04	5.18	
Lead, Total	7439-92-1	200	600	600	5.75	6.02	71.6	684	638	56.8	419	11	17.5	10.1	42.7	28.3	8.67	23.1	73.2	11.8	
Mercury, Total	7439-97-6	20	40	40	ND	ND	0.663	1.5	0.204	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.103	ND	
Nickel, Total	7440-02-0	700	1000	1000	3.55	4	10.8	31.5	8.4	3.75	22.5	4.38	7.02	13	3.12	2.85	2.27	4.51	4.36	2.61	
Selenium, Total	7782-49-2	400	800	800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Silver, Total	7440-22-4	100	200	200	ND	ND	ND	1.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium, Total	7440-28-0	8	70	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vanadium, Total	7440-62-2	500	800	800	13.9	16.4	9.54	25.8	7.59	16.5	ND	16.5	20.8	8.22	9.8	12.6	7.65	18.1	13	9.95	
Zinc, Total	7440-66-6	1000	3000	5000	14.4	13.8	149	938	574	29.8	355	18.2	19.3	24.8	39.5	59.9	18.7	19	78.3	18.5	
GENERAL CHEMISTRY																					
Solids, Total	NONE				93.6	91.6	96	83.5	79.5	83.8	19.8	90.4	88.2	93.3	83.9	87.6	94.8	86.3	81.2	91.8	

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John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts



ANALYTE	CAS	SAMPLE ID:			B-26 (0-1)	B-26 (0-3)	MW-1 (0-3)	MW-2 (0-3)	MW-3 (0-3)	MW-4 (0-3)	MW-5 (0-3)	MW-5 (10-11)	MW-5 (10-11)	MW-6 (0-1)	MW-6 (0-4)
		LAB ID:			L2513851-04	L2513851-05	L2513851-23	L2514164-05	L2514164-03	L2514164-04	L2514164-06	L2514164-07	L2514164-07 R1	L2514164-01	L2514164-02
		COLLECTION DATE:			3/11/2025	3/11/2025	3/11/2025	3/12/2025	3/12/2025	3/12/2025	3/12/2025	3/12/2025	3/12/2025	3/12/2025	3/12/2025
		SAMPLE MATRIX:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		REGULATORY STANDARDS (mg/kg)													
		S-1/GW-1	S-2/GW-1	S-3/GW-1											
MCP POLYCHLORINATED BIPHENYLS															
Aroclor 1016	12674-11-2	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Aroclor 1221	11104-28-2	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Aroclor 1232	11141-16-5	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Aroclor 1242	53469-21-9	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Aroclor 1248	12672-29-6	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Aroclor 1254	11097-69-1	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Aroclor 1260	11096-82-5	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Aroclor 1262	37324-23-5	1	4	4	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Aroclor 1268	11100-14-4	1	4	4	0.0535	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
PCBs, Total	1336-36-3	1	4	4	0.0535	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
EXTRACTABLE PETROLEUM HYDROCARBONS															
2-Methylnaphthalene	91-57-6	0.7	1	1	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Acenaphthene	83-32-9	4	4	4	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Acenaphthylene	208-96-8	2	2	2	ND	ND	ND	ND	ND	ND	ND	ND	-	0.371	ND
Anthracene	120-12-7	1000	3000	5000	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Benzo(a)anthracene	56-55-3	20	300	2000	ND	0.407	ND	ND	ND	ND	ND	ND	-	2.1	ND
Benzo(a)pyrene	50-32-8	2	30	30	ND	0.445	ND	ND	ND	ND	ND	ND	-	2.32	ND
Benzo(b)fluoranthene	205-99-2	20	300	2000	ND	0.567	ND	0.355	ND	ND	ND	ND	-	2.6	ND
Benzo(ghi)perylene	191-24-2	1000	3000	5000	ND	0.374	ND	0.375	ND	ND	ND	ND	-	1.48	ND
Benzo(k)fluoranthene	207-08-9	200	3000	5000	ND	ND	ND	ND	ND	ND	ND	ND	-	0.992	ND
C11-C22 Aromatics	C11-C22-ALPHA-UJ				7.95	28.2	ND	21.3	ND	10.1	ND	95.7	-	75.3	10.3
C11-C22 Aromatics, Adjusted	C11-C22-ALPHA-J	1000	1000	1000	7.95	23	ND	19.6	ND	10.1	ND	95.7	-	54.6	10.3
C19-C36 Aliphatics	C19-C36-ALPHA-UJ	3000	5000	5000	ND	15.1	ND	16.2	ND	ND	ND	375	-	11.1	13.6
C9-C18 Aliphatics	C9-C18-ALPHA-UJ	1000	3000	5000	ND	ND	ND	ND	ND	ND	ND	57.3	-	ND	ND
Chrysene	218-01-9	200	3000	5000	ND	0.684	ND	ND	ND	ND	ND	ND	-	2.14	ND
Dibenzo(a,h)anthracene	53-70-3	2	30	200	ND	ND	ND	ND	ND	ND	ND	ND	-	0.436	ND
Fluoranthene	206-44-0	1000	3000	5000	ND	0.898	ND	0.492	ND	ND	ND	ND	-	3.04	ND
Fluorene	86-73-7	1000	3000	5000	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Indeno(1,2,3-cd)Pyrene	193-39-5	20	300	2000	ND	ND	ND	ND	ND	ND	ND	ND	-	1.4	ND
Naphthalene	91-20-3	4	4	4	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Phenanthrene	85-01-8	10	20	20	ND	0.785	ND	ND	ND	ND	ND	ND	-	0.692	ND
Pyrene	129-00-0	1000	3000	5000	ND	1.04	ND	0.467	ND	ND	ND	ND	-	3.19	ND
MCP TOTAL METALS															
Antimony, Total	7440-36-0	20	40	40	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Arsenic, Total	7440-38-2	20	20	60	2.27	3.86	ND	1.46	2.07	9.04	6.78	1.84	-	3.41	2.79
Barium, Total	7440-39-3	1000	3000	5000	10.4	116	7.37	9.04	12.5	47.9	103	17.2	-	35.9	28.9
Beryllium, Total	7440-41-7	100	200	200	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Cadmium, Total	7440-43-9	80	80	80	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Chromium, Total	7440-47-3	100	200	200	5.04	6.5	2	3.16	2.06	7.13	12.6	5.22	-	6.67	3.17
Lead, Total	7439-92-1	200	600	600	63.4	396	ND	79.7	19.8	116	87.1	61.2	-	142	116
Mercury, Total	7439-97-6	20	40	40	ND	0.264	ND	ND	ND	ND	ND	ND	-	0.092	ND
Nickel, Total	7440-02-0	700	1000	1000	2.09	4.14	ND	2.02	ND	9.8	13.1	12	-	4.11	2.45
Selenium, Total	7782-49-2	400	800	800	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Silver, Total	7440-22-4	100	200	200	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Thallium, Total	7440-28-0	8	70	90	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Vanadium, Total	7440-62-2	500	800	800	9.16	8.14	5.39	6.04	3.77	12.8	11.1	5.1	-	10.3	5.25
Zinc, Total	7440-66-6	1000	3000	5000	29.6	155	8.8	30.5	20.1	237	129	68.5	-	108	91.9
GENERAL CHEMISTRY															
Solids, Total	NONE				94.6	88.5	96.7	95.4	94.2	80.1	90.1	83.9	-	89.1	90.3

- Notes:
1. **Bold** values indicate a detected analyte.
 2. Shaded values indicate the measured concentration is greater than one or more of the regulatory standards.*
 3. *Comparison is not performed on parameters with non-numeric criteria.
 4. S-1/GW-1: MA - MCP 2024 Method 1 S-1/GW-1 Soil Standards Criteria effective March 1, 2024.
 5. S-2/GW-1: MA - MCP 2024 Method 1 S-2/GW-1 Soil Standards Criteria effective March 1, 2024.
 6. S-3/GW-1: MA - MCP 2024 Method 1 S-3/GW-1 Soil Standards Criteria effective March 1, 2024.

Acronyms and Abbreviations:

mg/kg = milligram per kilogram
µg/L = microgram per liter
- = no data
E = Reported result is an estimate because it exceeds the calibration range
ID = identification
U = not detected at the reporting limit

Table 2
Summary of Groundwater Analytical Results
Preliminary Site Investigation and Notification Report
John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts

ANALYTE	SAMPLE ID:		IRRIG-1	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
	LAB ID:		L2516949-01	L2516949-03	L2516949-04	L2517179-01	L2517179-02	L2517179-03	L2516949-02
	COLLECTION DATE:		3/21/2025	3/21/2025	3/21/2025	3/24/2025	3/24/2025	3/24/2025	3/21/2025
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER	WATER	WATER	WATER
	CAS	REGULATORY STANDARD (µg/L) GW-1							
MCP VOLATILE ORGANICS									
Methylene chloride	75-09-2	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	70	ND	ND	ND	ND	ND	ND	ND
Chloroform	67-66-3	70	ND	3.7	ND	ND	ND	ND	ND
Carbon tetrachloride	56-23-5	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	124-48-1	2	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	5	ND	ND	27	ND	ND	ND	1.7
Chlorobenzene	108-90-7	100	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	75-69-4		ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	200	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	75-27-4	3	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	10061-02-6	0.4	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	10061-01-5	0.4	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropene, Total	542-75-6	0.4	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	563-58-6		ND	ND	ND	ND	ND	ND	ND
Bromoform	75-25-2	4	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	2	ND	ND	ND	ND	ND	ND	ND
Benzene	71-43-2	5	ND	ND	ND	ND	ND	ND	ND
Toluene	108-88-3	1000	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	100-41-4	700	ND	ND	ND	ND	ND	ND	ND
Chloromethane	74-87-3		ND	ND	ND	ND	ND	ND	ND
Bromomethane	74-83-9	10	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	75-01-4	2	ND	ND	ND	ND	ND	ND	ND
Chloroethane	75-00-3		ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	75-35-4	7	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	156-60-5	100	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	79-01-6	5	ND	ND	1.3	ND	ND	ND	ND
1,2-Dichlorobenzene	95-50-1	600	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	541-73-1	100	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	106-46-7	5	ND	ND	ND	ND	ND	2.3	ND
Methyl tert butyl ether	1634-04-4	70	ND	ND	ND	ND	ND	ND	ND
p/m-Xylene	179601-23-1	10000	ND	ND	ND	ND	ND	ND	ND
o-Xylene	95-47-6	10000	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	1330-20-7	10000	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	70	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene, Total	540-59-0		ND	ND	ND	ND	ND	ND	ND
Dibromomethane	74-95-3		ND	ND	ND	ND	ND	ND	ND

Table 2

Summary of Groundwater Analytical Results
Preliminary Site Investigation and Notification Report
John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts

ANALYTE	SAMPLE ID:		IRRIG-1	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
	LAB ID:		L2516949-01	L2516949-03	L2516949-04	L2517179-01	L2517179-02	L2517179-03	L2516949-02
	COLLECTION DATE:		3/21/2025	3/21/2025	3/21/2025	3/24/2025	3/24/2025	3/24/2025	3/21/2025
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER	WATER	WATER	WATER
	CAS	REGULATORY STANDARD (µg/L)							
		GW-1							
1,2,3-Trichloropropane	96-18-4		ND	ND	ND	ND	ND	ND	ND
Styrene	100-42-5	100	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	75-71-8		ND	ND	ND	ND	ND	ND	ND
Acetone	67-64-1	6300	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0		ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	78-93-3	4000	ND	ND	ND	ND	ND	ND	ND
Methyl isobutyl ketone	108-10-1	350	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	591-78-6		ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	74-97-5		ND	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	109-99-9		ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	594-20-7		ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	106-93-4	0.02	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	142-28-9		ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	630-20-6	5	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	108-86-1		ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	104-51-8		ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	135-98-8		ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	98-06-6		ND	ND	ND	ND	ND	ND	ND
o-Chlorotoluene	95-49-8		ND	ND	ND	ND	ND	ND	ND
p-Chlorotoluene	106-43-4		ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	96-12-8		ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	87-68-3	0.6	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8		ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	99-87-6		ND	ND	ND	ND	ND	2.3	ND
Naphthalene	91-20-3	140	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	103-65-1		ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	87-61-6		ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	120-82-1	70	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	108-67-8		ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	95-63-6		ND	ND	ND	ND	ND	ND	ND
Diethyl ether	60-29-7		ND	ND	ND	ND	ND	ND	ND
Diisopropyl Ether	108-20-3		ND	ND	ND	ND	ND	ND	ND
Ethyl-Tert-Butyl-Ether	637-92-3		ND	ND	ND	ND	ND	ND	ND
Tertiary-Amyl Methyl Ether	994-05-8		ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	123-91-1	0.3	ND	ND	ND	ND	ND	ND	ND
SUM			-	3.7	28.3	-	-	4.6	1.7
EPH W/TARGETS VIA GCMS-SIM									
C9-C18 Aliphatics	C9-C18-ALPHA-UJ	700	ND	ND	ND	ND	ND	ND	ND
C19-C36 Aliphatics	C19-C36-ALPHA-UJ	14000	ND	ND	ND	ND	ND	ND	ND
C11-C22 Aromatics	C11-C22-ALPHA-UJ		ND	ND	ND	ND	ND	ND	ND

Table 2
Summary of Groundwater Analytical Results
Preliminary Site Investigation and Notification Report
John L. Niel Youth Baseball Complex
525 Gifford Street, Falmouth Massachusetts



ANALYTE	SAMPLE ID:		IRRIG-1	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
	LAB ID:		L2516949-01	L2516949-03	L2516949-04	L2517179-01	L2517179-02	L2517179-03	L2516949-02
	COLLECTION DATE:		3/21/2025	3/21/2025	3/21/2025	3/24/2025	3/24/2025	3/24/2025	3/21/2025
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER	WATER	WATER	WATER
	CAS	REGULATORY STANDARD (µg/L) GW-1							
C11-C22 Aromatics, Adjusted	C11-C22-ALPHA-J	200	ND	ND	ND	ND	ND	ND	ND
Naphthalene	91-20-3	140	ND	ND	ND	ND	ND	0.456	ND
2-Methylnaphthalene	91-57-6	10	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	208-96-8	40	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	83-32-9	20	ND	ND	ND	ND	ND	ND	ND
Fluorene	86-73-7	40	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	85-01-8	50	ND	ND	ND	ND	ND	ND	ND
Anthracene	120-12-7	100	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	90	ND	ND	ND	ND	ND	ND	ND
Pyrene	129-00-0	70	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	56-55-3	1	ND	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	2	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	1	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	1	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	50-32-8	0.2	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	193-39-5	0.5	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	0.5	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	191-24-2	50	ND	ND	ND	ND	ND	ND	ND
MCP TOTAL METALS									
Antimony, Total	7440-36-0	6	ND	ND	ND	ND	ND	ND	ND
Arsenic, Total	7440-38-2	10	ND	ND	ND	ND	ND	ND	ND
Barium, Total	7440-39-3	2000	10.9	13	1170	55.6	38.2	13	36.6
Beryllium, Total	7440-41-7	4	ND	ND	ND	ND	ND	ND	ND
Cadmium, Total	7440-43-9	5	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	7440-47-3	100	ND	ND	ND	ND	ND	ND	ND
Lead, Total	7439-92-1	15	ND	ND	ND	ND	ND	ND	ND
Mercury, Total	7439-97-6	2	ND	ND	ND	ND	ND	ND	ND
Nickel, Total	7440-02-0	100	ND	ND	ND	ND	ND	ND	ND
Selenium, Total	7782-49-2	50	ND	ND	ND	ND	ND	ND	ND
Silver, Total	7440-22-4	100	ND	ND	ND	ND	ND	ND	ND
Thallium, Total	7440-28-0	2	ND	ND	ND	ND	ND	ND	ND
Vanadium, Total	7440-62-2	30	ND	ND	ND	ND	ND	ND	ND
Zinc, Total	7440-66-6	5000	653	ND	70.8	ND	ND	ND	ND

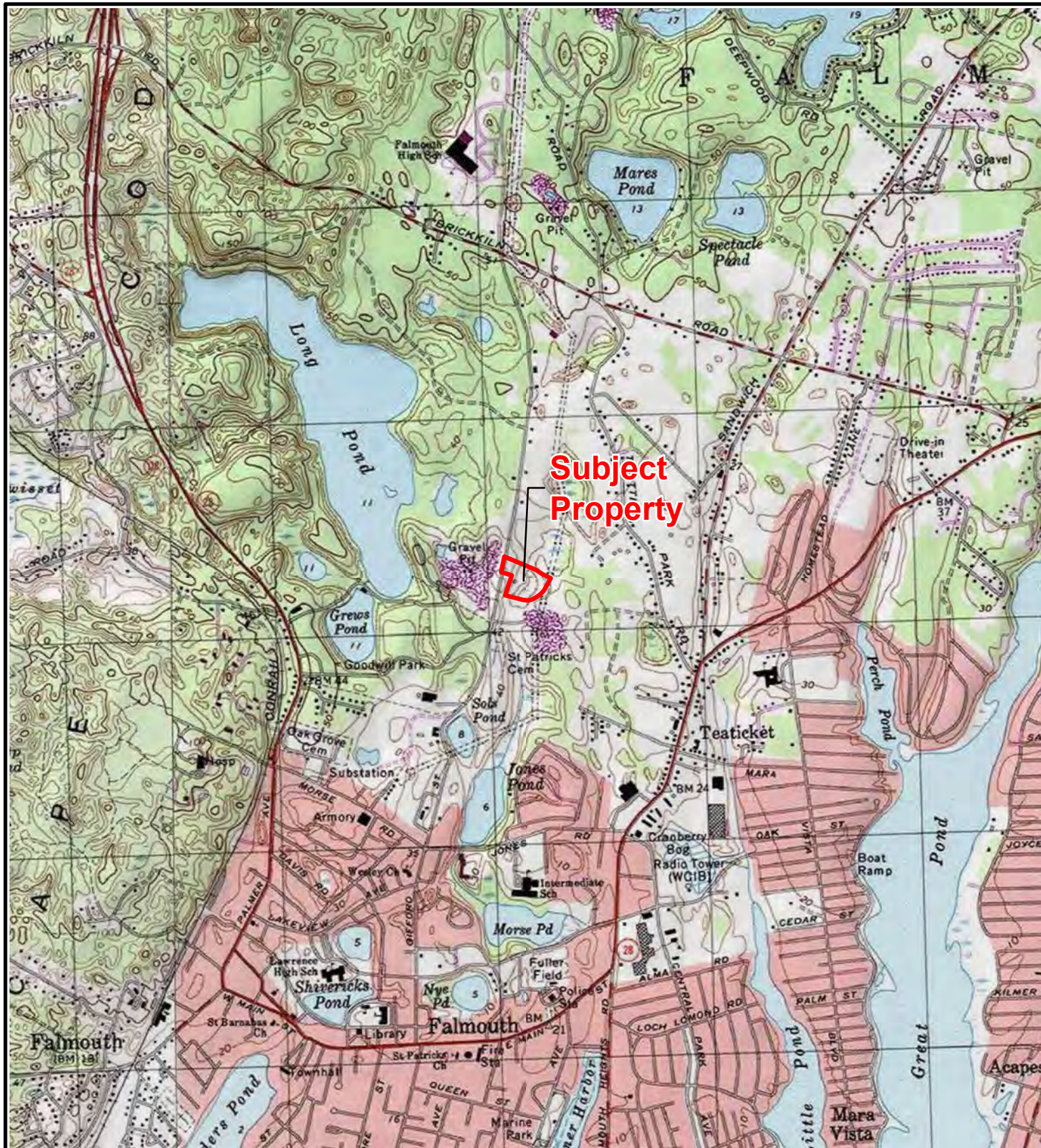
Notes:

1. **Bold** values indicate a detected analyte.
2. Shaded values indicate the measured concentration is greater than GW-1.*
3. *Comparison is not performed on parameters with non-numeric criteria.
4. GW-1: MA - MCP 2024 Method 1 GW-1 Groundwater Standards Criteria effective March 1, 2024.

Acronyms and Abbreviations:

µg/L = microgram per liter
 -- = no data
 ID = identification

Figures



LEGEND:

Subject Property



0 2,000 4,000
SCALE IN FEET

TROTTLING PARK BASEBALL FIELDS
525 GIFFORD STREET, FALMOUTH, MA
PHASE I ENVIRONMENTAL SITE ASSESSMENT

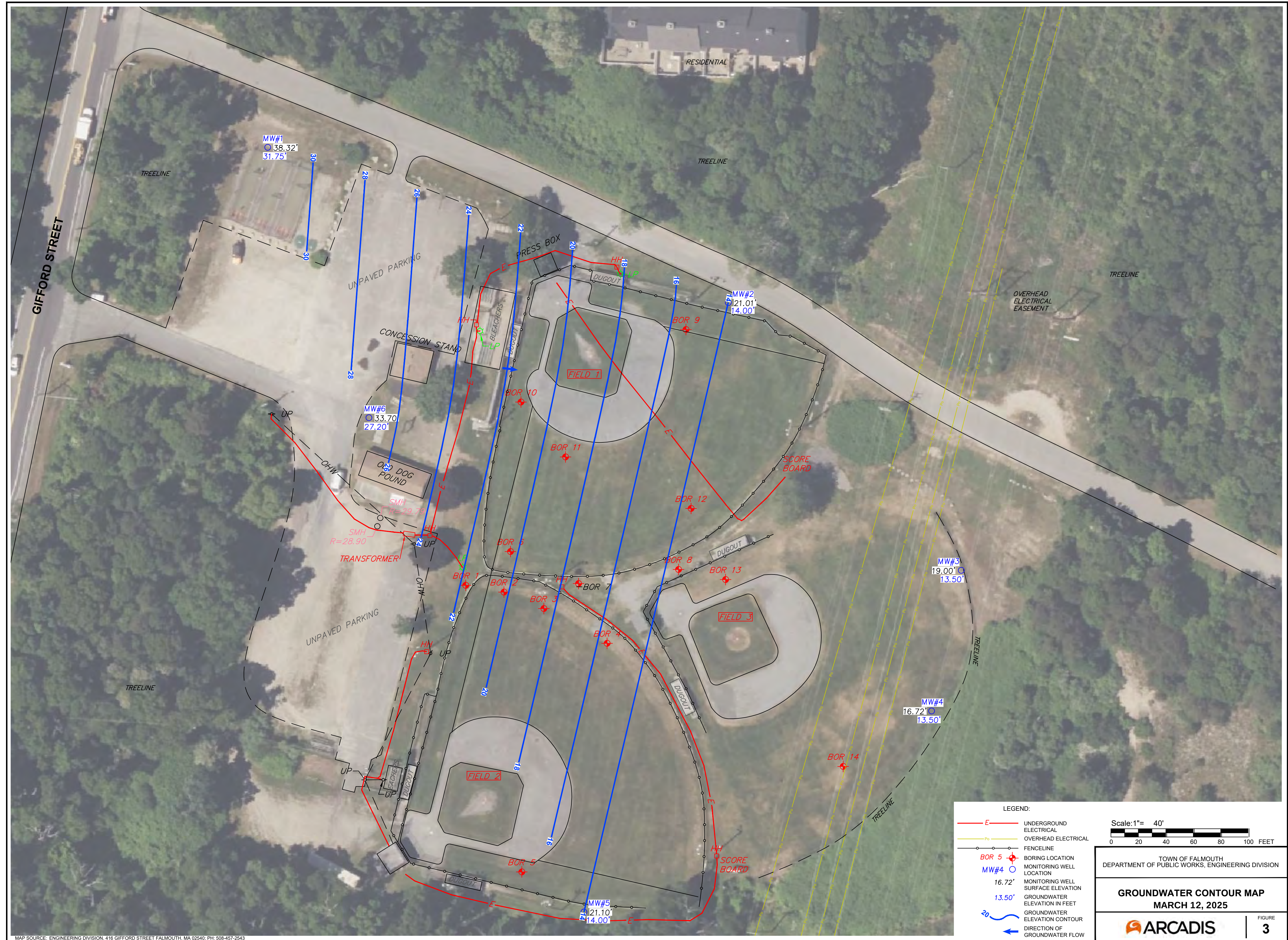
SUBJECT PROPERTY
LOCATION MAP

 **ARCADIS**

FIGURE
1



			TOWN OF FALMOUTH DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 416 GIFFORD STREET FALMOUTH, MA 02540 508-457-2543		BORING AND WELL LOCATION PLAN LITTLE LEAGUE FIELDS FALMOUTH, MA 02540		
					DESIGN:	DATE : MAR. 14, 2025	
					DRAWN: NAC	SCALE: AS NOTED	SHEET
					CHECKED: ARC		1 OF 1
					DRAWING : TOWN\2025\LLFLDS.DWG		
DATE	BY	REVISION					



Appendix A

Limitations

LIMITATIONS AND SERVICE CONSTRAINTS

The opinions and recommendations presented in this report are based upon the scope of services and information obtained through the performance of the services described herein. This report is an instrument of professional service and was prepared in accordance with the Massachusetts Contingency Plan (MCP) Response Action Performance Standard (310 CMR 40.0191), the Board of Registration of Hazardous Waste Site Cleanup Professionals, Rules of Professional Conduct (309 CMR 4.00) and the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representations are intended or given beyond those required in Massachusetts General Law Chapter 21E or the MCP (310 CMR 40.0000). Reuse of this report or any portion thereof for other than its intended purpose, or if modified, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when ARCADIS's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and may not represent a 100% conclusive or complete characterization of all conditions at the site. Conditions in other parts of the site may vary from those at the locations where data were collected. ARCADIS's ability to interpret investigation results is related to the availability and validity of the data and the extent of the investigation activities.

ARCADIS does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such property. In accordance with 310 CMR 40.1100, the Massachusetts Department of Environmental Protection (MassDEP) may audit all or part of this report and any associated Licensed Site Professional (LSP) Opinions at any time. In its audit of any response action submittal, the MassDEP will base its findings of any regulatory noncompliance on the version of the MCP and Response Action Performance Standard in effect at the time of its receipt of the submittal. Such an audit may result in additional services, beyond those described herein that may result in additional costs (such as the costs for additional drilling or sampling). The evaluation of any additional data collected, in conjunction with possible regulatory changes or technological advances may result in a modification to the original LSP Opinion.

Appendix B

MassDEP Site Assessment Map

MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:

525 GIFFORD STREET FALMOUTH, MA

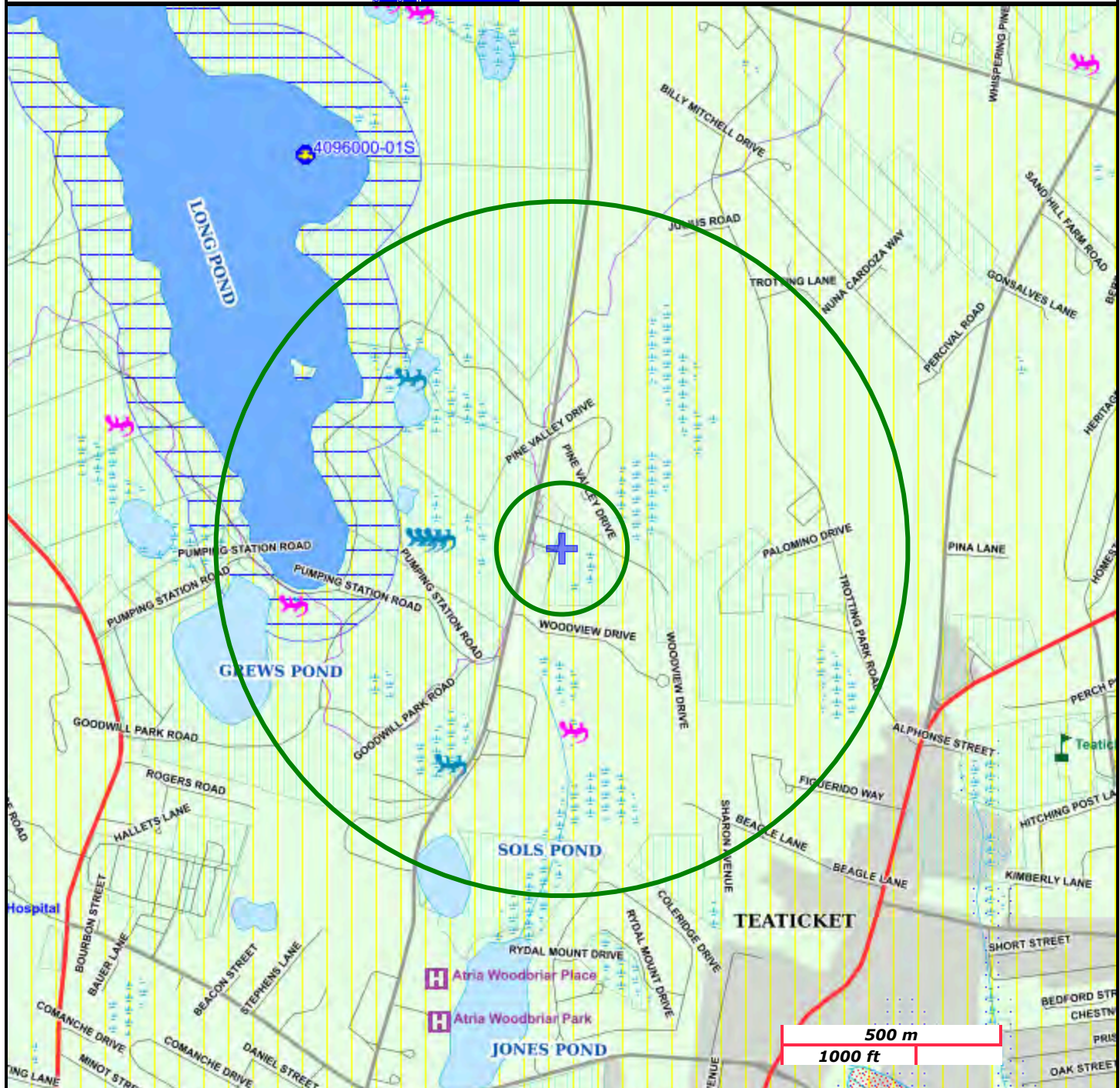
NAD83 UTM Meters:
4603484mN, 366191mE (Zone: 19)
April 14, 2025

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at:
<https://www.mass.gov/orgs/massgis-bureau-of-geographic-information>.



MassDEP

Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source

Non Potential Drinking Water Source Area: Medium, High (Yield)

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

NHESP Pri-Hab of Rare Species; Vernal Pool: Cert., Potential

Solid Waste Landfill; PWS: Com. GW, SW, Emerg., Non-Com.

Appendix C

Historical information

https://www.capenews.net/falmouth/news/a-look-back-at-the-old-gifford-street-dump/article_c31c1888-e7ec-11ef-9f17-7fce59e462b1.html

A Look Back At The Old Gifford Street Dump

By DEVIN ANKENY

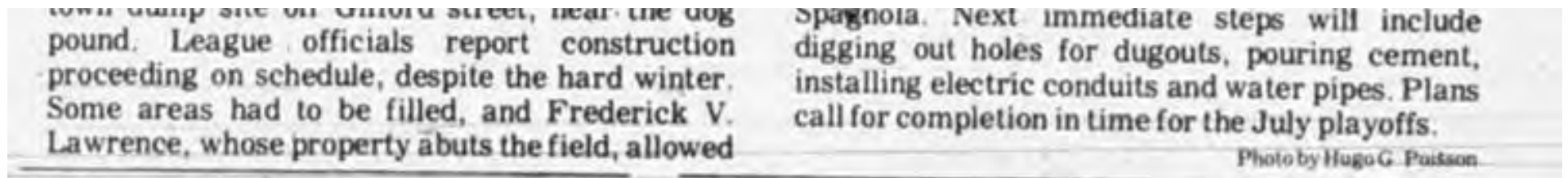
Feb 13, 2025

[Home](#) / [Falmouth](#) / [Falmouth News](#)



PLAY BALL! — Well, maybe not quite yet, but Falmouth's first regulation Little League field is beginning to look a little more like a baseball surface than a dump. Its location is the former town dump site off Gifford street, near the dog

use of his land for this purpose. Lawrence-Lynch Corporation donated trucks and drivers last week and transported 16 loads of loam to the site. Loam was donated by Plum Hollow developer Anthony



This photograph and caption from April 1977 shows the Little League fields being built on the site of the old dump on Gifford Street.

ENTERPRISE FILE PHOTO

The old town dump on Gifford Street—long covered over and forgotten—is getting some new attention after toxic materials have surfaced in the soil of the baseball fields that were built on top of it in the 1970s.

Lead, arsenic, polychlorinated biphenyls (PCBs) and glass were discovered in soil that had been excavated back in September to install new lighting at the fields.

The fields, located within Trotting Park, have been closed until the town can determine the extent of the contamination and come up with a plan for cleaning up the site.



Here is what is known about the former dump under the baseball fields, compiled from the Enterprise's archival reporting and Falmouth annual reports.

The town opened the municipal dump on Gifford Street on April 21, 1925, after at least two decades of complaints of illegal roadside dumping in the area. The Enterprise reported as early as July 1904 on complaints of illegal Gifford Street dumping.

The new dump on Gifford Street allowed the town to close a dump in Falmouth Heights, which neighbors had long complained about.

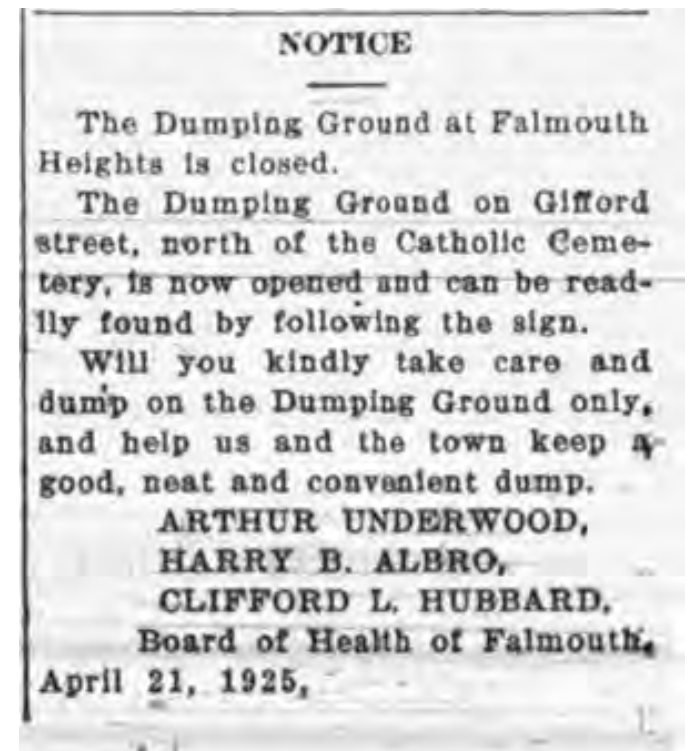
The new dump was open-faced and would occasionally be partially covered by gravel and dirt. The town regularly burned garbage there, spurring many complaints while the dump was in operation.

In May 1935, the Enterprise reported more than 100 people signed a petition calling on the town to limit the burning of refuse at the Gifford Street dump. However, the practice continued for another two decades.

The Enterprise reported that garbage was being burned at the site “almost constantly.” In 1955, the town decided to limit the garbage burns to two days per week.

In the early 1950s, attempts were made to close the dump. Sidney W. Lawrence, whose family owned an asphalt plant on Gifford Street, led one of those efforts. His pursuit to close the dump was based largely on the “nuisance” of abutting a public dump and, particularly, one that practiced burning.

The dump also had frequent visitors—gulls—which would fly in, pick up refuse, fly to Long Pond and leave trash there. Residents feared the gulls’ garbage droppings would pollute the pond and the public water supply there. Some in town suggested shooting the gulls to put an end to the problem. The town, however, did not sanction the killing of gulls.



This notice was printed in The Enterprise in 1925.
ENTERPRISE FILE PHOTO

“We’ll have all the gulls on Cape Cod here if we don’t do something” Austin Perry said in August 1951. Mr. Perry was the Long Pond pumping station attendant at the time. It was generally agreed then that the gull problem increased after an East Falmouth piggery was ordered closed by the board of health in July of that year.

The piggery was also used as a dumpsite for trash because the pigs would eat the garbage.



For all its problems, the Gifford Street dump became a significant public service for the town. In 1955 alone, the town reported that the community deposited 28,084 loads of garbage there.

It took several years and a new dumpsite committee before residents, with Mr. Lawrence at the lead, succeeded in getting the Gifford Street dump closed. At the spring 1956 Town Meeting, voters approved the relocation of the dump to Thomas B. Landers Road in West Falmouth. The budget approved for 1957 included a \$1,000 item for covering the Gifford Street dump upon its decommissioning.

That \$1,000 item (roughly \$11,160 in today’s dollars) also served to cover the North Falmouth dump, which was also being closed at the time.

The Gifford Street dump was closed on May 1, 1957.

Just two weeks after that closure, then-selectman Charles Botelho (who also sat on the committee to study the relocation of the Gifford Street dump) floated the idea of building a Little League baseball complex on the dumpsite, which had been closed for approximately two weeks by that point.

At the time, the town had few baseball fields. In the 1957 fall season Falmouth children would play their home games in Hyannis because there were not good options for fields in town.

In 1958 the Little League organization formed a subcommittee, which was in charge of pursuing a new site for baseball play. In an April 1958 Enterprise article, it was reported that Colonel Richard W. DaVania, of Otis Air National Guard Base, offered “unlimited resources” to the Little League organization so it could play at the base.

The following year, the Otis Air National Guard Base constructed baseball fields so children could play baseball there. That helped, but Little League field availability remained a topic of discussion for decades. In 1962 Fuller Field, which had started to be used as a Little League field, had just dropped from two fields to one, and that last field was set to be taken to make more room for track and field.

In August 1976 Special Town Meeting voters approved a plan to build a Little League baseball complex “at the site of the old dump off Gifford Street.” The fields would be built by Falmouth Youth Baseball, Inc. That complex was completed in spring the following year at no cost to the town, thanks to donations and already-held funds by the baseball organization.

The work went quickly. Lawrence-Lynch donated trucks and drivers, and transported 16 loads of loam to help fill in the areas of the site that needed it. Plum Hollow developer Anthony Spagnola donated the loam.



A meeting notice from 1956.

ENTERPRISE FILE PHOTO



What, Dump No Rubbish ?

This is the entrance to the former town dump on Gifford street as it looked on Tuesday. The

sign says, "Dump No Rubbish, under penalty of the law."



This photograph from 1957 shows the then-recently closed Gifford Street dump.

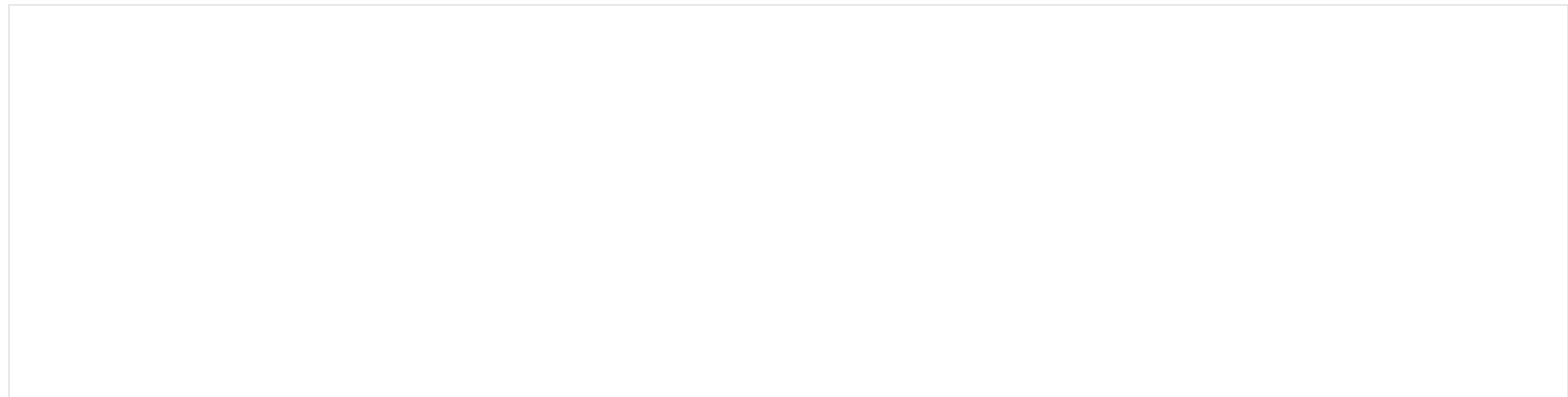
ENTERPRISE FILE PHOTO

That complex was dedicated on June 19, 1977.

The town's Little League held an opening ceremony and 10 games that day. The fields have been in regular use for 47 years.

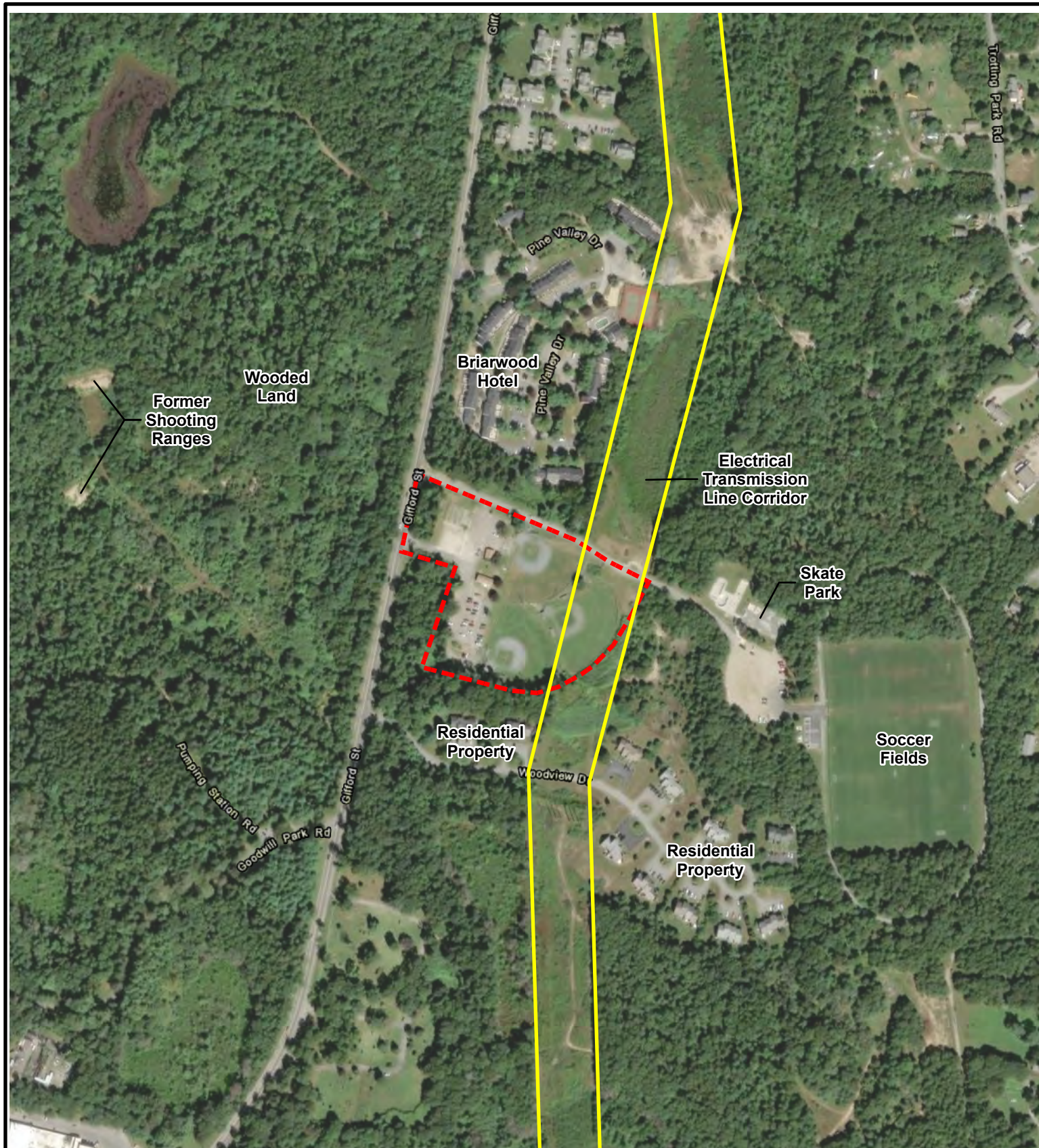


MORE INFORMATION





Town To Keep All Trotting Park Baseball Fields Closed



LEGEND:

- Electrical Transmission Line Corridor
- - - Subject Property



TROTting PARK BASEBALL FIELDS
525 GIFFORD STREET, FALMOUTH, MA
PHASE I ENVIRONMENTAL SITE ASSESSMENT

SURROUNDING PROPERTY MAP



FIGURE
3





COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

JANE SWIFT
Governor

BOB DURAND
Secretary

LAUREN A. LISS
Commissioner

MEMORANDUM

To: BWP Staff
From: James C. Colman, Assistant Commissioner, BWP
Date: July 6, 2001
Subject: Revised Guidelines for Determining Closure Activities at Inactive Unlined Landfill Sites

Note: These revised Guidelines supersede and replace the original "Guidelines for Determining Closure Activities at Inactive Unlined Landfill Sites" issued on July 17, 2000.

I. Issue Statement/Background

Many inactive unlined landfills and dumping grounds that ceased operations prior to 1990 were never properly closed and capped in accordance with the solid waste management regulations in effect at that time (310 CMR 19.000, the "Solid Waste Management Facilities Regulations"). These sites have the potential to cause adverse impacts to public health, safety, and the environment by generating leachate and landfill gas.

As part of the revised solid waste regulations in 1990 and subsequent statutory requirements (c. 153 of the Acts of 1992), all active unlined landfills (unlined landfills that accepted waste after 1990) were required to close and cap in accordance with the regulations. During closure of many of those sites, certain hard-to-manage materials not suited for reuse in the general environment were successfully incorporated into the closure design. A variety of materials, such as certain contaminated soils from waste site clean-up activities and residues from construction and demolition waste processing (C&D fines), were used to bring sites to the proper grade for closure, provide an adequate foundation layer for final cover materials, and help defray the cost of closure.

With the closure of active unlined landfills now nearly complete, there are no longer sites available that can use these materials for closure activities. At the same time, disposal of these materials in active landfills, the only other readily available management option, is not only more costly, but these landfills have limited capacity available. However, using these materials to properly close inactive landfills can result in eliminating or reducing public health, safety and environmental concerns of the inactive landfill site, make additional land available for

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productive uses, provide a safe and appropriate location for a number of hard-to-manage materials, and reduce the cost of closure for the owner of the site.

In recognition of the fact that inactive unlined landfill sites should be capped and closed and that some types of materials have proven to be appropriate for use during closure and to defray the cost of closure, thereby expediting such closures, the Department believes it is appropriate and in the interest of environmental protection to issue guidelines to clarify closure issues at inactive unlined landfills.

The purpose of this document is to clarify the closure provisions of 310 CMR 19.000 by providing guidance on the procedures and criteria the Department will use when reviewing requests to close inactive unlined landfills where use of alternative grading and shaping materials is proposed. Specifically, these guidelines address permitting requirements and evaluation procedures for determining the types and quantities of materials used during closure and the length of time for closure activities.

II. Definitions

C&D Fines means the material produced after the processing of construction and demolition (C&D) waste which is: (a) three inches or less (3" minus) in size; (b) consists of dirt (soil), wood, metal, plastic, etc., and (c) is limited to no more than 35% organic content.

C&D Residuals means the construction and demolition (C&D) waste material that remains after recyclable materials (asphalt, brick, concrete, metals, etc.) and C&D fines have been removed during processing of C&D wastes and which consists mostly of wood, textiles (carpet, fabric, etc.), plastic and dirt.

Grading and Shaping Material means materials the Department has determined are not solid waste when used in accordance with an approved plan, or other approval issued by the Department, to provide proper grades for closure and post-closure uses. Grading and Shaping Material is equivalent to the subgrade component of the final cover system.

Inactive Unlined Landfill means, for purposes of these Guidelines, a landfill or dumping ground that was in operation after April 21, 1971, but ceased operations prior to July 1, 1990, that never closed in accordance with a Department approved closure plan.

III. Applicability

Section 19.021 of the Solid Waste Management Facility Regulations (310 CMR 19.000) required owners of inactive unlined landfills to either file proof that the facility was closed in accordance with plans approved by the Department, or to submit a final closure plan in accordance with the regulations (310 CMR 19.030(3)(c)5.). These guidelines are applicable to facilities that never submitted proof of closure and where owners/operators are now seeking approval of closure plans for their facility.

Inactive unlined landfills that ceased operations prior to April 21, 1971, are, by policy, subject to regulation under the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000, and therefore are not specifically subject to these guidelines, unless the Department determines that any such landfill can be adequately regulated under the solid waste management program. Unlined

landfills in operation after July 1, 1990 were required to close pursuant to c.153 of the Acts of 1992 and the 1990 Solid Waste Management Facility Regulations, and are therefore not the focus of these guidelines.

A. General Principles

1. It is the Department's responsibility to determine appropriate closure and post-closure requirements to protect public health, safety and the environment.
2. The Department will only approve closure designs that demonstrate through a landfill assessment that the closure will result in an appropriate level of environmental protection. In reviewing the closure design, the Department will consider whether the closure protects public health, safety and the environment and whether the site is being developed for a post-closure use that is safe and appropriate.
3. The Department will determine the types and quantities of materials that are appropriate for use during closure as well as the length of time for completion of closure.
4. The intent of these guidelines is to facilitate the closure of inactive landfills, not to promote or allow disposal activities.
5. Closure does not trigger any solid waste review thresholds that would make a MEPA filing (ENF, etc.) necessary as long as closure activities do not result in expansion, either vertically or laterally, of the facility for the disposal of solid waste. Changes in the contours of the landfill necessary for proper closure and/or post-closure use are not considered expansions. However, closure activities may trigger other thresholds under other provisions of MEPA, such as for wetlands, which will require compliance with MEPA. Closure does not include combustion, disposal, storage, processing or treatment of solid waste.
6. The owner/applicant will provide the opportunity for timely public review and comment of all closure proposals. The Department will provide the opportunity for public comment on the draft closure plan approval.
7. The Department may require the use of Best Management Practices (BMPs) for all activities at the closure site to minimize the impacts to the surrounding community and environment due to noise, odor, dust, erosion, vehicle exhaust, etc. The Department may require diesel retrofits for all heavy equipment to reduce vehicle emissions as part of the consideration of BMPs for the site.
8. In accordance with the Beyond 2000 Solid Waste Master Plan goal of increasing the source reduction and recycling of non-municipal solid waste, the Department intends to monitor the approved sources of the residuals intended to be used in inactive unlined landfill closures to ensure every reasonable effort is made by facilities to maximize source reduction and recycling of material and minimize the amount of residuals produced. As such, the Department may require documentation of residuals processing activities by facilities and may consider reuse and recycling rates in authorizing use of specific residual materials at inactive unlined landfill closure sites.
9. Use of materials at inactive unlined landfills that are not determined by the Department to be closures in accordance with these guidelines will be considered landfill expansions pursuant to 310 CMR 19.000. Such projects will require permitting in accordance with 310 CMR 16.00 and 19.000 as landfill expansions.
10. All closure activities shall be conducted in accordance with 310 CMR 19.000, the "Solid Waste Management Facility Regulations" and these guidelines.

B. Process

1. Administrative Consent Orders (ACOs) will be used by the Department as the regulatory mechanism for the closure and capping of inactive unlined landfills. The ACO shall include, but not be limited to, the following:
 - a. a schedule establishing when key components of the closure will be completed;
 - b. public comment periods during the planning and design stages of the project;
 - c. a requirement for completing a landfill assessment in accordance with the regulations as part of the closure process;
 - d. a requirement for developing a closure plan and a post-closure maintenance and monitoring plan;
 - e. identification of the proposed post-closure use of the site, if applicable;
 - f. a financial assurance mechanism (FAM), where determined necessary by the Department; and,
 - g. a provision for stipulated penalties or other appropriate mechanisms to ensure compliance.

Most of the items listed above are described in greater detail below.

2. Public comment periods or other public participation mechanisms, which allow at least 21 days for comments, shall include but not be limited to:
 - a. An owner/applicant sponsored public information session to describe the proposal before the ACO is signed (executed) by the Department; and,
 - b. In accordance with the permit review procedures at 19.037, DEP approvals issued for the Corrective Action Design (closure plan approval) will include a public comment period. The Department may, at its discretion, hold a public hearing before issuing a final decision to approve or deny the closure plan.
3. The Department's Solid Waste Section Chiefs shall review all proposals for projects submitted under this policy and the Chiefs shall make recommendations to the Bureau of Waste Prevention (BWP) senior management team for review.
4. The landfill assessment shall be completed before the final cap is installed, but may be done concurrently with grading and shaping activities. The assessment shall be completed in accordance with 310 CMR 19.150 and the May 1997 "Landfill Technical Guidance Manual" (as may be amended), and shall identify the actual and potential threats from the site.
 - a. The assessment shall include an evaluation of the potential impacts resulting from the types and quantities of materials brought to the site for closure activities. Both short term and long-term (after closure) impacts shall be evaluated.
 - b. The Corrective Action Alternative Analysis, completed in accordance with 19.150(6), shall evaluate, at a minimum, the following, unless the Department determines that one or more steps are unnecessary:
 1. the no action scenario;
 2. the consolidation of waste into a smaller footprint;
 3. closure of the site in accordance with the standard regulatory requirement (19.112) (i.e. grading and shaping necessary to establish minimum closure grades (5%);
 4. post-closure use options for the site; and
 5. alternative designs (19.113) using components, materials, technologies or methodologies other than those expressly provided for under 19.112. In particular, the proponent should examine the use of components and materials that result in beneficial use of waste materials (i.e. use of tire chips as drainage material).
5. The site specific closure plan shall include, but not be limited to, identifying all activities that will occur at the site, such as:

- a. the types, amounts and intended function of all materials brought to the site;
 - b. the type and number of trucks brought to the site on a daily basis; and,
 - c. the typical daily activity, including types of equipment and their use, and hours of operation.
6. The site-specific post-closure plan shall identify all maintenance and monitoring requirements necessary to ensure the integrity of the site to prevent any adverse impacts to the public health, safety or the environment.
7. The Department must approve any proposed post-closure use of the site.
 - a. Post-closure use plans shall be developed and reviewed in accordance with the regulatory requirements at 19.143, Post-Closure Use of Landfills.
 - b. Post-closure use plans (conceptual or final) may be submitted with the closure plan to expedite the review/approval process.
 - c. Post-closure uses of the site that include construction of buildings or active recreation are required to include a risk assessment, which evaluates exposure to landfill gas, for the intended post-closure use unless an active gas collection system is designed, approved and installed.
8. The financial assurance mechanism (FAM), when required, shall be for an amount sufficient to:
 - a. ensure closure of the site in accordance with the approved plans in the event of failure of the proponent to complete the closure as planned. In the case of sites that are closed in phases, a FAM will be required for the entire project or for each phase; and
 - b. provide for post-closure monitoring and maintenance.
9. Stipulated penalties or other appropriate mechanisms shall be included in the ACO to address any failure to complete closure activities in accordance with the Department approved plan.

C. Determining Appropriate Closure Activities

1. The actual or potential public health, safety or environmental threats attributable to the site shall be considered in determining the type and extent of closure activities.
2. Closure includes:
 - a. all activities necessary to protect public health, safety or the environment;
 - b. all measures needed to remediate or prevent adverse impacts from past solid waste activity at the site; and,
 - c. all activities necessary for developing the post-closure use of the site.
3. The extent of closure activity is determined by evaluating:
 - a. current conditions at the site through a landfill assessment, which may vary widely from site to site; and,
 - b. alternatives, including the “no action” alternative, and constructing a standard cap.
4. The Department may consider post-closure use of the site when approving final grades for closure.

D. Benefit of Materials Used During Closure

1. Materials brought to the site can be used to provide the necessary contours to achieve the minimum grades required for closure.
2. Materials can be used to improve the integrity and long term performance of the final cover system (cap) by:
 - a. providing a solid foundation layer for the landfill cap construction; and
 - b. minimizing the settlement potential, thereby improving long-term performance of the final cover.

3. Materials can be used to facilitate the post-closure use of the site.

E. Criteria for Materials Used for Closure Activities

1. Use of materials during closure shall not significantly add to the actual or potential public health, safety or environmental concerns of the inactive unlined landfill. Materials used during closure shall:
 - a. be non-putrescible and not contain contaminants that are likely to leach in the landfill environment;
 - b. not significantly increase the concentration of contaminants in leachate or quantities of leachate released at the site;
 - c. not significantly increase the toxicity or quantities of landfill gas released; and,
 - d. not significantly increase nuisance conditions, such as noise, dust or odor, at the site.
2. Closure materials shall have, but not be limited to, the following characteristics:
 - a. be granular and composed predominately of inorganic (mineral) materials to minimize settlement due to decomposition, gas generation, etc.;
 - b. be easy to spread, compact to high density, and not readily decompose over time;
 - c. be well graded; and
 - d. a maximum size where no more than 10% of the material, by weight, exceeds 6 inches (nominal) in size with a maximum size of 12 inches in any dimension. However, the Department may require smaller size materials in its approval based on processor ability to achieve smaller size.
3. To reduce settlement, generation of landfill gas and leachate, the organic content (determined by a loss on ignition test) of materials brought to the site during closure shall either be:
 - a. less than 35% (by weight) on a material specific basis; or
 - b. less than 35% of the combined weight of all materials brought to the site during closure, excluding the weight of final cover materials used for the cap.
4. All materials greater than 35% organic content shall be mixed with other materials to meet 3.b. above, either prior to or during the actual placement of that material. An appropriate method to verify the organic content of materials brought to the site shall be a requirement for use of those materials.

F. Types of Materials Used for Closure Activities

1. The types of materials the Department will consider for grading and shaping materials include, but are not limited to, the following:
 - a. clean soil;
 - b. street sweepings;
 - c. contaminated soil as defined by DEP Policy 97-001;
 - d. approved grading and shaping materials (C&D fines, coal ash, etc. and others as may be approved);
 - e. dewatered catch basin cleanings from separate storm sewers only (not from combined sanitary and storm sewers);
 - f. dewatered dredge spoils (see DEP Policy 94-007); and,
 - g. residuals from solid waste processing facilities or recycling operations including, but not limited to;
 1. residuals from C&D processing facilities;
 2. residuals from Materials Recycling Facilities (recycling facilities, composting facilities, etc.).

2. The type and/or source of all materials used as grading and shaping materials shall be approved by the Department prior to use at the landfill. Testing of materials (chemical, physical, etc.) may be required to determine whether they are suitable as grading and shaping material. Use of grading and shaping materials will be authorized under an ACO and the closure plan approval, or other appropriate approval issued by the Department. This Guideline is considered equivalent to a generic Beneficial Use Determination, pursuant to 310 CMR 19.060, which allows the use of these materials as Grading and Shaping Material. Therefore, a separate Beneficial Use Determination is not required for use of the materials when they are approved as described in this paragraph.
3. Unprocessed MSW, C&D or any other unprocessed wastes will not be considered suitable for use as grading and shaping material in the closure of inactive unlined landfills.

G. Timeframe and Volume Limits for Closure

1. Generally, the maximum time period for completion of closure should be two (2) years - one year for site preparation activities (grading etc.) and one (1) year for installation of the cap.
 - a. The Department may consider a longer time period, generally not to exceed 3 years, based on, but not limited to, the following:
 1. availability of closure materials;
 2. potential adverse impacts to the surrounding community from traffic, dust, noise, odor or other nuisance conditions that would warrant reducing the amount of material coming to the site on a daily basis; and
 3. completion of the closure in phases.
2. Generally, the volume of material used for closure will be the amount necessary to achieve a minimum 5% grade for the entire site.
 - a. Where a minimum 5% grade for the entire site is proposed, closure activities may, if necessary, exceed three (3) years.
3. In determining the volume of material approved to grade and shape a landfill for post-closure use, where the amount would exceed that necessary to achieve a minimum 5% grade, the Department will consider uses that are reasonable, appropriate and consistent with the existing site conditions including, but not be limited to, the following:
 - a. the amount of existing waste at the site;
 - b. the increase in the total volume of material at the site;
 - c. the compatibility of proposed grade and/or elevation changes at the site relative to existing conditions and to the surrounding topography and/or land use;
 - d. the types of materials used during closure; and
 - e. the proposed post-closure use.
4. Achieving proper grades needed to close the landfill, or for post-closure use, is the primary factor in determining the volume of material to be used. Revenue generation to offset closure costs is a secondary factor that may be considered.
5. Except as allowed pursuant to paragraphs 1.a., 2.a. and 3, projects requiring greater than three years to complete or more material than allowed above will be considered landfill expansions and will be required to obtain the appropriate permits that apply to expansions pursuant to 310 CMR 19.000. Non-construction related closure activities, such as assessment work, may occur outside the time periods specified above.



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

IAN A. BOWLES
Secretary

LAURIE BURT
Commissioner

MEMORANDUM

To: BWP Staff
From: James C. Colman, Assistant Commissioner, BWP
Date: September 4, 2007
Subject: Addendum to "Revised Guidelines for Determining Closure Activities at Inactive Unlined Landfill Sites, July 6, 2001" Use of Construction and Demolition Fines and Residuals

MassDEP will continue to review and potentially permit new unlined landfill closure projects pursuant to the "Revised Guidelines for Determining Closure Activities at Inactive Unlined Landfill Sites, July 6, 2001". However, any project proposing to use construction and demolition fines and/or residuals (C&D Fines/Residuals) shall be reviewed based upon the additional criteria specified below, in addition to the criteria established in the Revised Guidelines. These additional criteria are intended to address the potential for generation of hydrogen sulfide gas (H₂S) when C&D Fines/Residuals are used as grading and shaping material in such projects. These criteria do not represent MassDEP's endorsement of C&D Fines/Residuals as grading and shaping material. These criteria do not limit MassDEP from requiring additional measures beyond those listed to protect the public health, safety or the environment. MassDEP may revise this addendum, as needed, to better protect the public health, safety or the environment.

Criteria:

1. **Setbacks** – The proximity of the project to residential, commercial and business areas will be taken into account. In no case will areas using C&D Fines/Residuals for grading and shaping be located closer than the setbacks to residents stated in the Site Assignment Regulations at 310 CMR 16.40 for landfills.
2. **Gypsum/Wallboard Separation** – Each C&D processor that will send C&D Fines/Residuals to the project must have a gypsum/wallboard separation plan approved by MassDEP. The mandatory program must be designed to separate gypsum/wallboard at the job site and/or at the front-end of the C&D processing train prior to crushing or grinding, to greatest extent feasible.

3. **Sulfate Content.** - The project proponent will be required to sample and test, on an ongoing basis, all C&D Fines/Residuals for their sulfate content. MassDEP may establish an upper limit for sulfate content in C&D Fines/Residuals used as grading and shaping material.
4. **Maximize Diversion of Clean Wood** –Clean wood shall be separated from the C&D waste stream to the maximum extent feasible prior to processing and shall be diverted to recycling/reuse activities.
5. **Mix Ratio** – C&D Fines/Residuals must be mixed with soils at a ratio of at least 3 parts soil to 1 part C&D Fines/Residuals, by volume.
6. **Mixing** – Soils and C&D Fines/Residuals must be thoroughly mixed to create a homogeneous mixture of C&D Residuals and soil. Preferably, such mixing shall be done prior to application on the landfill. MassDEP shall approve the mixing method.
7. **Odor Control Plan** – The project proponent shall file an odor control plan with the closure plan for the facility. The Odor Control Plan shall address steps the operator shall take in the event that odor problems develop at the landfill and the triggers for taking these steps.
8. **Capping** – Closure and capping of completed sections of the landfill shall be accomplished as quickly as possible upon reaching final grades.
9. **Financial Assurance** – The Financial Assurance Mechanism (FAM) that is required for the closure and post-closure of the landfill must also address financial assurance for construction and operation of a landfill gas collection system, pre-treatment system and flare. In determining the basis for the FAM the operator will need to determine how long landfill gas might need to be collected, treated and flared and the operation and maintenance required for the collection, treatment and flaring systems.

REPORT from Town Hall

Town Forest committee has organized with Ralph J. Waite again chairman and Ray D. Wells as secretary. The committee has designated Dr. Alfred C. Redfield as its representative on the Tree Planting committee.

A citation for economy with the taxpayers dollar should go to the water department. Taking advantage of the fact that Pitts-burgh-Des Moines Steel company had brought Framingham painter, Roy O. Leonard, down to paint the new top plates on Woods Hole standpipe, water commissioners advertised a contract for painting the rest of the standpipe. Leonard, with his scaffolding and equipment on the scene, bid \$1,000 less than the next lowest bidder.

Selectman J. Edward Nickerson is convalescing in good spirits and plans to visit his town hall office next week. A large number of friends chipped in to buy Mr. Nickerson a portable television set, which was set up to surprise him in the living room of his home on Pleasant View avenue when he returned from the hospital. Mrs. Nickerson reports his very great pleasure in the gift.

Photostats
by the
BOB BUTLER
STUDIO
688 Main St., Tel. 489

Town of Falmouth
APPLICATION FOR LIQUOR LICENSE

Falmouth, Mass. April 25, 1957
Office of the Licensing Board:
138 of the General Laws, as amended, that the Falmouth Yacht Club Inc., William W. Peters, Mgr. has applied for renewal of seasonal license to sell all alcoholic beverages as a club in building consisting of 2 floors, 1st floor game room and boat storage; 2nd floor, ballroom and bar, located at corner of Grand Avenue and Clinton Avenue, Falmouth Heights.

Town of Falmouth
PUBLIC HEARING NOTICE

Notice is hereby given of a public hearing in the Selectmen's office, Town Hall, Falmouth, Mass., at 10:15 A.M., May 3, 1957, on the application of Julio Roderick, Main St., East Falmouth, Mass., for a license to keep and store underground, for private use, 1,000 gallons of gasoline.

Town of Falmouth
NOTICE TO THE PUBLIC

No playing of golf will be allowed on Falmouth Parks. All violators will be prosecuted.

W. DONALD DURELL, chairman
Park Commissioners

NOTICE
TOWN OF FALMOUTH

The Gifford Street and the North Falmouth dumps will be permanently closed on May 1st and thereafter no dumping of refuse or garbage will be permitted in those areas.

The new disposal area is located off of Thomas B. Landers Road, Hatchville. To reach this new disposal area from West and North Falmouth, take the Thomas B. Landers Road from Route 28; from Falmouth or East Falmouth take Sandwich Road to Sam Turner Road. Bear left on Thomas B. Landers Road.

This new disposal area will open on May 1st and a sign will be posted at the entrance on Thomas B. Landers Road.

Per Order,
BOARD OF HEALTH
Falmouth, Mass.

Town Business

Contracts Awarded:
R. H. White Construction Co., for furnishing and installing pumping equipment, piping, electrical work, etc. at Long Pond pumping station, \$67,161.

Permits To Alter:
Jack R. Lopes, Seacoast Shores, relocate dwelling on new location, 20 x 40, Lot 37, Sec. G, Newton road, \$500.

Building Permits:
Mrs. Louise M. Simmons, Falmouth, dwelling 42'8" x 30' on Queen street, \$9,000.

A. N. Vardac, 60 Buckney street, dwelling and garage, 62'x26', Lot 9, Marling's lane, Medeiros Bros. builders, \$5,000.

Robert Thompson, Falmouth, dwelling 32'x26' on Brick Kiln road, Capeway Builders, \$5,000.

Herman Oeschger, Seacoast Shores, vegetable and fruit stand, 30'x20', on Route 28, W. Rogers Hunt, Needham, dwelling 42'x24' on Lot 59, Arlington street, New Silver Beach, Flexhult Homes Inc., Needham, builders, \$5,500.

Jack R. Lopes, Seacoast Shores, dwelling and garage underneath, 32'x40', Lot 7, Sec. 4, Edgewater drive, \$10,000.

Robert L. Lloyd, Manchester, N.H., dwelling 36'x20' on Lots 7 and 8, Lawrence street, Maravista, \$3,200.

Business Notes...

Early opening of Marcel, the Hairdresser, is announced in an Enterprise advertisement this week. Mr. Marcel and Mrs. Marcel, who assists him in the shop, are now year around Waquoit residents. They came here professionally for the first time in 1945. In private life they are Mr. and Mrs. Marcel Come.

An orchid to the Quaker Bonnet! Tomorrow is their anniversary.

Town of Falmouth
INVITATION FOR BIDS

For furnishing 5,000 linear feet of 2" nominal size, seamless copper tubing, type K, soft, in coils, said tubing to conform in all respects to Federal Specifications for underground use. The bid price shall include delivery to Falmouth, Mass. and each proposal shall state approximate delivery date.

Sealed bids will be received at the office of the Selectmen until 11:00 A.M. Eastern Daylight Time on Wednesday, May 8, 1957, at which time they will be publicly opened and read.

The right is reserved to waive minor technicalities, to reject any or all proposals or to accept the proposal deemed best for the Town.

Town of Falmouth
Board of Water Commissioners
George R. Thayer
Ormond C. Ellery
Joseph R. Hall

Town of Falmouth
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Park Commissioners

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Per Order,
BOARD OF HEALTH
Falmouth, Mass.

sary. Seven years ago, Mrs. Cedric K. Hadley opened the Quaker Bonnet on Main street. Four years later in January, Mr. Hadley joined his wife and the shop was enlarged by adding space of the adjoining store. The Hadleys will open a second gift shop in the store formerly occupied by the Greenwood gift shop on the Parkway in June.

Treadway Inn is represented at the 32d annual New England Hotel and Restaurant Show in Boston today by Donald H. Clauson, manager, and Richard F. Tobin in charge of public relations at the Inn. The three-day show is at the Hotel Statler.

Stevens Store in East Falmouth has added a new service. Bonded money orders may be purchased during store hours. Stevens Store is open evening and holidays now and will be open on Sundays also after June.

Mid and Tom Vahey are back at the Music Club in East Falmouth after a successful season in Florida.

New at J. J. Buckley's Furniture Store is Richard Briggs who lives on Palmer Avenue.

The Nimrod club reports that George Allen and Mac Grant are back for the season.

Correction please! Mrs. Cora R. Carter, agent for the Harry W. Carter Realty at Jericho Path reports that the name of the business will not be changed.

Mr. and Mrs. William E. C. Perry, Jr. of Bill Perry's in West Falmouth will fly to Miami, Florida, on May 1. They will motor to Providence where they will take the plane.

Regional Zoning?
Barnstable County Bar association has appointed a committee to investigate the possibility of developing uniform zoning provisions applicable to all Cape towns. Several planning boards on the Cape have organized the Barnstable County Association to Study Regional Planning Problems.

Falmouth Heights
Michael Inamorata was down from Boston to spend the weekend at the family summer home on Hawthorne avenue.

Mr. and Mrs. Charles Costello were down from Malden to spend the holiday and weekend at their summer place, the Commodore.

NOTICE OF CHANGE OF CORPORATE NAME
The undersigned officers of North Falmouth Community Association, Inc., a corporation organized under the laws of Massachusetts, located in the town of Falmouth, county of Barnstable, hereby give notice that a petition executed according to law, requesting that the name of the corporation be changed to The Precinct, Falmouth Association, Inc. was submitted to and approved by the Commissioner of Corporations and Taxation, and deposited in the office of the Secretary of the Commonwealth, April 10, 1957, pursuant to the provisions of section 11 of chapter 180 of the General Laws, as amended.

Ann, Elizabeth Buckbee, President
Brenton W. Roberts
Ida Small Sylvester
Mary S. McCormiskey
Paul C. Noonan
Clifford B. Amaral
Sidney S. Moore
Directors

Town of Falmouth
PUBLIC HEARING NOTICE

Notice is hereby given of a public hearing in the Selectmen's office, Town Hall, Falmouth, Mass., at 10:30 A.M., on the application of Arthur J. Wagner of Falmouth, Massachusetts, for a permit in accordance with Section 14, of the zoning by-laws to subdivide his property on Grand Avenue, Falmouth Heights, being lots No. 6 and 16.

Per order of,
Elery C. Davis,
Clerk, Board of Appeals.

Town of Falmouth
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Elery C. Davis,
Clerk, Board of Appeals.

Town of Falmouth
INVITATION FOR BIDS

For furnishing the following water works materials to the Town of Falmouth:
Flow Meter

The office copy of specifications and the contract form for furnishing water works materials can be seen and a copy may be obtained by qualified suppliers at the office of Whittam & Howarth, Inc., Engineers, 80 Broad Street, Boston, Mass.

The proposal must be sealed in an envelope addressed to Board of Water Commissioners, Falmouth, Mass., endorsed with the name and address of the bidder and "Proposal for furnishing water works materials" and submitted to the Board of Water Commissioners at the office of the Selectmen, Town Hall, Falmouth, Mass., at 11:00 o'clock A.M. Eastern Daylight Saving Time, Wednesday, May 8, 1957. Proposals to be submitted in letter form, to state firm prices and delivery schedule.

Proposals submitted as above directed and no other, will, at the above named hour and place, be publicly opened by a member of the Board of Selectmen and read, and the undersigned reserve the right to reject any or all proposals, or to accept the proposal they deem best for the Town of Falmouth.

Problems Of Valuation Discussed
Continued from Page 1
mouth but in other parts of the state.

Evaluating Hotels
On hotel and motel valuations based on net income: Mr. Quillan was asked how the factor of good or bad management can be calculated, and how different systems of accounting can be reconciled.

Mr. Quillan: "That is why I asked them to submit to me a certified copy of their federal income tax return. Seventy-five percent have done so, and they are being studied. I know the price range of their rooms and the number of days they operate. I can calculate on the basis of potential income and figure, not according to their net income, on the return."

"The owner of two hotels claims that they averaged \$2,800 a year on the two hotels for a period of seven years. This may be true, but they still haven't provided the returns. These are just verbal statements, and there will be no change made until we get the information we want."

"In my individual discussions with the owners, I made the point very clear that I am not accepting the black or red figure they end up with at the end of the tax year. They can cover up too much in the income tax statements."

"I expect to have the final analysis on this group in a few days. If they do not give me the information, there will be no change made. It will be worked out by comparing with other properties that have provided me with full information."

State will be asked to approve final figures: Mr. Quillan said state examiners will make a "spot check" and compare the total to the estimate established by the state board of appraisers.

"I think Falmouth was set up about \$83 or \$87 million value and ours was about \$93 million. There was a small difference between their estimate and our survey, considering the amount involved."

On Land Values
Land: Should it be valued according to its value on the market?

Mr. Quillan: "We come to the problem of land being held by an old family or a wealthy one. Say it has been in the family for generations. They don't want to let go of it, but they don't want to pay taxes on what it is worth. We assess it on what it would sell for, and it is murder on the people. But the property is worth it and that is all we can do, use our best judgment on what we find in the town to establish the value."

Town of Falmouth
PUBLIC HEARING NOTICE

Notice is hereby given of a public hearing in the Building Dept. Hearing Room on Friday, May 3, 1957, at 10:30 A.M. on the application of John J. Lauzonis of Cambridge, Mass., for a variance of Section 16 to permit the addition of a garage to existing structure located on lot No. 263, Gages Drive, Shorewood Beach.

Per order of,
Elery C. Davis,
Clerk, Board of Appeals.

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Land, square footage or acreage valuation?
Mr. Quillan: "That brings up the problem whether a number of lots in one ownership should be taxed at full potential sales value or considered on the acreage basis, and the individuals who buy those lots assessed on the wholesale value."

"When we set it up, we consider it lot by lot in group ownership. If the assessors decide they want to group them on the wholesale acreage plan, it is not our business."

"But as long as a lot is established as a lot of record, it has a potential sales value and, as an individual lot, is worth so much. I cannot see where the individual owning 100 lots should have any less to pay on those lots than the 100 individuals owning one lot. It is a policy that must be decided by the town. The appraisers cannot decide what formulas will be used to give relief to any developer or any individual owning a great number of lots."

Comings And Goings At Otis Last Week

(Following is a roster of arrivals and departures among the servicemen at Otis Air Force base during the week, April 16 to 22.)

Arrivals
First Lieut. Thomas C. Dorsey, 58th FIS, 1st Lt. T. C. Dorsey, 120th WEA Sq.; Staff Sgt. Ralph Jackson, 2018th AACPS; Tech. Sgt. Sidney G. White, 33d OPNS; Staff Sgt. Robert L. Lewis, 60th FIS; Staff Sgt. Bruce L. Myers, 33d INSTLON; Staff Sgt. Richard W. Scott, 58th FIS; A1c Verdo H. Chiencher, 2018th AACPS; A1c Ray D. Harrington, 2018th AACPS; A1c Jonah E. Henderson, 4604th; A1c Boyd N. Schluter Jr., 33d INSTLON; A1c Richard Wisnom, 33d FLDMAINTRON; A2c Robert L. Beah, 33d SUPRON; A2c Charles M. Bush, 33d INSTLON; A2c Edward L. Clark, 33d INSTLON; A2c John M. Cyclopedia, 33d AGPU; A2c Ronald A. Demello, 58th FIS; A2c Clifford W. James, 58th FIS; A2c Ronald J. Morrison, 58th FIS; A2c Genaro Santucci, 33d AGPU; A2c Carolyn Duggins, 33d USAF Hosp; A2c Jimmy R. Epps, 33d INSTLON; A2c Donald E. Henry, 33d FLDMAINTRON; A2c William E. King, 33d INSTLON; A2c Myrna L. Maddox, 33d Hd. Sq.; A2c Robin G. Monaco, Hd. Sq.; A2c Ronald A. Reid, 33d Hd. Sq.

Departures
First Lieut. William R. Hale, 58th FIS; First Lieut. John L. Neash, 33d OPNS; WO Willie O. Riddle, 33d FDSERRON; Master Sgt. Harvey B. Wolcott, 33d SUPRON; Staff Sgt. Florian M. Corriveau, 58th FIS; Staff Sgt. George W. Evans, 33d FLDMAINTRON; Roger L. Manseau, 60th FIS; Staff Sgt. Leroy A. Revell, 33d TRANSTRON; Staff Sgt. Leonard E. Rogers, 58th FIS.

Staff Sgt. Maynard E. Whitten, 58th FIS; A1c Edward L. Chase Jr., 33d SUPRON; A1c Russell E. Colegrove, 33d INSTLON; A1c David W. Duten, 33d SUPRON; A1c Michael W. Frontczak, 58th FIS; A1c Howard E. Hendricks, 33d AGPU; A1c Walter Jones Jr., 33d FLDMAINTRON; A1c Jennie M. Kay, 33d SUPRON; A1c John W. Martin, 58th FIS; A1c James A. Wilcox, 33d TRANSTRON; A1c Joseph I. Banister, 58th FIS; A2c Kenneth L. Berry, 33d TRANSTRON; A2c Patricia M. Clark, Hd. Sq.; A2c Robert J. Snyder, 2018th AACPS; A2c Juanita M. Spence, 33d USAF Hosp; A2c James W. LeCroy, 33d

Helicopter Pilot For Dave Garraway

Lieut. and Mrs. Frederick Cameron are now stationed at Jacksonville, N. C., Marine Air Station. Mrs. Cameron is the former Miss Rosemary Asselin, who wrote such interesting letters while with her husband in Japan. Lieut. Cameron is flying a helicopter today in Washington for Dave Garraway. Orders from the pentagon were simple, "Send up a marine who can fly a helicopter for Dave Garraway."

Lieut. Cameron will be out of service in May and plans to fly helicopters for the summer for Louisiana off-shore oil companies. In the fall he and his wife plan to return to the University of New Hampshire for further study.

New Bedford, Woods Hole, Martha's Vineyard & Nantucket Steamship Authority

SPRING SCHEDULE - Effective April 28, 1957 thru May 8, 1957
Daylight Saving Time

TO THE ISLANDS	Ex.	Sun.	Daily	Daily	Daily	Daily	Daily	Fri.	Sun.
Trip No. 1	1	9	1	11	13	15	17	19	
	A.M.	A.M.	A.M.	A.M.	P.M.	P.M.	P.M.	P.M.	
Lv. New Bedford					9:15				
Lv. Woods Hole	7:00	9:30	11:00	11:30	2:30	4:30	7:00	10:00	
Due Vineyard Haven	7:40	10:10		12:10	3:10	5:10	7:40	10:40	
Due Nantucket				2:00					

FROM THE ISLANDS

TO THE ISLANDS	Ex.	Sun.	Daily	Daily	Daily	Daily	Daily	Fri.	Sun.
Trip No. 2	8	10	12	14	16	4	18	20	
	A.M.	A.M.	A.M.	P.M.	P.M.	P.M.	P.M.	P.M.	
Lv. Nantucket								2:30	
Lv. Vineyard Haven	6:00	8:15	10:30	1:30	3:30			6:00	9:00
Due Woods Hole	6:40	8:55	11:10	2:10	4:10	5:30	6:40	9:40	
Due New Bedford						7:15			

Schedule Subject To Change Without Notice

Connecting Boat Trip No.

Obituaries
Mrs. Alice Mullen
Mrs. Alice Clark Mullen, a former teacher at Woods Hole Children's School of Science, died last Thursday at her home in Amherst. Mrs. Mullen taught for many years in the School of Science until early in the 1930's she became secretary and illustrator for Dr. Paul S. Galtsoff of the Bureau of Fisheries. Since 1940 she has lived in Amherst. Funeral services were held there Tuesday.

John Worley
John Worley of Scraggy Neck, Cataumet, died yesterday at Cape Cod Nursing home in Buzzards Bay after a long illness. He was 88.

Mr. Worley was born in Coventry, England, March 21, 1869. He was apprenticed for seven years to his father's watch jewel business in Coventry. Framed on the wall of a reception room at the North Falmouth plant of John Worley Jewel company is the certificate that was given him on completion of his apprenticeship, March 25, 1890.

In 1890 Mr. Worley came to this country and settled in Waltham, where he remained in the employ of Waltham Watch company until 1900. In that year he established John Worley Jewel company, first independent manufacturer of jewel bearings in this country.

He moved the business to North Falmouth in 1954 and built a home at Scraggy Neck, near that of his son and business partner, Donald E. Worley.

Mr. Worley in 1891 married Miss Amelia A. Mason, who died April 15, 1955. He leaves three children, Donald E. of Cataumet, John L. of Wellesley and Mrs. Ida F. Redwine of New Jersey. There are three grandchildren and five great grandchildren.

Mr. Worley was a member of Isaac Parker lodge, AF&AM, in Waltham and a member of St. Barnabas Memorial church in Falmouth. The Rev. Leslie F. Wallace will officiate at funeral services at Nickerson Funeral home in Bourne at 2:30 P.M. Sunday. Burial will be in Cataumet cemetery.

Percy D. Rowe
Funeral services Monday for Percy D. Rowe were largely attended. The Rev. Ralph H. Long officiated at services at First Congregational church. Burial was in Oak Grove cemetery.

Pall bearers were fellow businessmen during Mr. Rowe's days as a Main street pharmacist, Marshall F. Schlepark, Harry L. Crooks, Thomas A. Eastman, Granville Beale, Arnold W. Dyer and James M. Pafford.

Mrs. Adelbert F. Mead
Mrs. Theodosia Wright Mead, mother of Lucian W. Mead of North Falmouth, died Monday in Arlington. She was 90. Her husband, Adelbert F. Mead, died in 1944.

Mrs. Mead was a member of First Universalist church in Arlington and Arlington Woman's club. She leaves four other children, Sumner A. Mead of Arlington, Varnum C. Mead of Wellesley Hills, the Misses Marion E. and Lois B. Mead of Arlington. There are four grandchildren and two great grandchildren.

Funeral services were held from her home in Arlington Wednesday, and burial was in Mt. Hope cemetery, West Acton.

Mrs. James K. Wardwell
Mrs. Mabelle Cooley Wardwell, for many years a summer resident of Davisville, died at her

home in Boston Wednesday. Funeral services are to be held at the Waterman Chapel, Kenmore Square, at noon tomorrow with burial in Lowell cemetery. She was the widow of Dr. James Knight Wardwell who died in 1948. Mrs. Wardwell was a frequent visitor on Naushon island, and at one time was a director of the Dorchester Settlement house. Earlier this month, friends drove her to Falmouth where she was an overnight guest at Elm Arch Inn and visited friends during her stay here.

Mrs. Theodore J. Swift
Mrs. Thankful W. Swift, 93, of Glendon road, Woods Hole, died at her home after a long illness on Sunday.

Mrs. Swift was born in Chilmark the daughter of Peter and Mary (Clifford) Wainwright. Her parents brought her to Woods Hole when she was a small child and she lived there practically all her life. She was the widow of the late Theodore J. Swift, who died in 1949.

She is survived by two sons, Ernest B. Norton and Francis W. Norton both of Milwaukee, Wis., and a daughter, Mrs. Esther C. Wilson of Woods Hole, a sister, Mrs. Almyra P. Veeder of Woods Hole, and a niece, Mrs. Isabel V. Mitchell of New Bedford; four grandchildren and six great grandchildren.

Funeral services were Tuesday afternoon from Jenkins Funeral home in West Falmouth, the Rev. Mason Wilson officiating. Burial was in the family lot at the Church of the Messiah in Woods Hole.

Dealers Will Oppose License For Abbott

Falmouth Beverage association, the organization of Falmouth's licensed liquor dealers, Tuesday voted unanimously to oppose a club liquor license for Charles P. Abbott's new Royal Club hotel in Meganest. Joseph J. Sheehan of the Hunt Club was appointed to attend the promised public hearing and voice the association's objections. Some time ago the selectmen assured liquor dealers that Falmouth has its quota of bars and package stores.

Licensing board has scheduled hearing on the Abbott license at 2 P.M. Tuesday, April 30. Falmouth Heights Improvement association has asked a public hearing on request of Shore House restaurant for a liquor license.

Michael A. Ames of Terrace Gables was elected president of the association Tuesday. They plan their annual dinner meeting at Coonamessett Corner June 19 and hope to have as speaker William H. Hearn, secretary of the Alcoholic Beverages Control commission.

DEATH NOTICE
WORLEY, of Cataumet, at Buzzards Bay on Thursday, April 25, 1957

Appendix D

Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number:	L2475966
Client:	Arcadis U.S., Inc 30 Braintree Hill Office Park Braintree, MA 02184
ATTN:	Jim Luker
Phone:	(781) 356-7300
Project Name:	TROTting FIELD
Project Number:	30251964
Report Date:	01/06/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2475966-01	B-1 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 09:20	12/24/24
L2475966-02	B-1 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 09:15	12/24/24
L2475966-03	B-2 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 09:30	12/24/24
L2475966-04	B-2 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 09:40	12/24/24
L2475966-05	B-3 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 09:55	12/24/24
L2475966-06	B-3 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 09:45	12/24/24
L2475966-07	B-4 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 10:00	12/24/24
L2475966-08	B-4 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 10:05	12/24/24
L2475966-09	B-5 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 10:15	12/24/24
L2475966-10	B-5 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 10:25	12/24/24
L2475966-11	B-6 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 10:30	12/24/24
L2475966-12	B-6 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 10:40	12/24/24
L2475966-13	B-7 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 11:00	12/24/24
L2475966-14	B-7 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 11:10	12/24/24
L2475966-15	B-8 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 11:20	12/24/24
L2475966-16	B-8 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 11:30	12/24/24
L2475966-17	B-9 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 11:40	12/24/24
L2475966-18	B-9 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 11:50	12/24/24
L2475966-19	B-10 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 12:00	12/24/24
L2475966-20	B-10 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 12:10	12/24/24
L2475966-21	B-11 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 12:20	12/24/24
L2475966-22	B-11 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 12:30	12/24/24
L2475966-23	B-12 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 12:40	12/24/24
L2475966-24	B-12 .5-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 12:50	12/24/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2475966-25	B-13 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 13:00	12/24/24
L2475966-26	B-13 3-5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 13:10	12/24/24
L2475966-27	B-14 0-.5	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 13:20	12/24/24
L2475966-28	B-14 2-4	SOIL	525 GIFFORD ST,FALMOUTH MA 02540	12/20/24 13:30	12/24/24

Project Name: TROTting FIELD

Lab Number: L2475966

Project Number: 30251964

Report Date: 01/06/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is 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
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
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
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
E 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).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
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
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

L2475966-03: The collection date and time on the chain of custody was 20-DEC-24 09:30; however, the collection date/time on the container label was 20-DEC-24 09:40. At the client's request, the collection date/time is reported as 20-DEC-24 09:30.

L2475966-04: The collection date and time on the chain of custody was 20-DEC-24 09:40; however, the collection date/time on the container label was 20-DEC-24 09:30. At the client's request, the collection date/time is reported as 20-DEC-24 09:40.

L2475966-20: The collection date and time on the chain of custody was 20-DEC-24 12:10; however, the collection date/time on the container label was 20-DEC-24 12:00. At the client's request, the collection date/time is reported as 20-DEC-24 12:10.

In reference to question H:

A Matrix Spike was not submitted for the analysis of Total Metals.

Volatile Organics

In reference to question H:

L2475966-02, -06, -08, -12, -14, and -16: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0011)

Average Response Factor: 1,4-dioxane

Verification: 1,4-dioxane (134%)

L2475966-18: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0011)

Average Response Factor: 1,4-dioxane

Verification: dichlorodifluoromethane (63%)

L2475966-02, -06, -08, -12, -14, -16, and -18: The associated continuing calibration standard is outside the

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Case Narrative (continued)

acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

PCBs

In reference to question G:

L2475966-06D: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L2475966-06D: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Total Metals

L2475966-01 through -28: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

In reference to question G:

L2475966-05, -12, -16, and -28: One or more of the target analytes did not achieve the requested CAM reporting limits.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 01/06/25

QC OUTLIER SUMMARY REPORT

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035 Low - Westborough Lab								
8260D	Batch QC	WG2015783-3	Bromomethane	LCS	142	70-130	02,06,08,12, 14,16	potential high bias
8260D	Batch QC	WG2015783-4	Bromomethane	LCSD	132	70-130	02,06,08,12, 14,16	potential high bias
8260D	Batch QC	WG2016027-3	Acetone	LCS	133	70-130	18	potential high bias
8260D	Batch QC	WG2016027-4	Acetone	LCSD	131	70-130	18	potential high bias
Extractable Petroleum Hydrocarbons - Westborough Lab								
EPH-19-2.1	Batch QC	WG2014554-3	C11-C22 Aromatics	LCSD	28	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Naphthalene	LCSD	26	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	2-Methylnaphthalene	LCSD	28	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Acenaphthene	LCSD	26	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Fluorene	LCSD	26	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Phenanthrene	LCSD	29	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Anthracene	LCSD	28	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Fluoranthene	LCSD	31	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Pyrene	LCSD	32	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Benzo(a)anthracene	LCSD	31	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Chrysene	LCSD	32	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Benzo(b)fluoranthene	LCSD	32	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Benzo(k)fluoranthene	LCSD	32	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Benzo(a)pyrene	LCSD	31	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Indeno(1,2,3-cd)Pyrene	LCSD	30	25	15-18,20-28	non-directional bias
EPH-19-2.1	Batch QC	WG2014554-3	Dibenzo(a,h)anthracene	LCSD	30	25	15-18,20-	non-directional bias



QC OUTLIER SUMMARY REPORT

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
EPH-19-2.1	Batch QC	WG2014554-3	Benzo(ghi)perylene	LCSD	28	25	28 15-18,20-28	non-directional bias
MCP Polychlorinated Biphenyls - Westborough Lab								
8082A	B-1 .5-5	L2475966-02	Decachlorobiphenyl (B)	Surrogate	160	30-150	-	potential high bias
8082A	B-3 .5-5	L2475966-06 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	- - not applicable - -
8082A	B-3 .5-5	L2475966-06 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	- - not applicable - -
8082A	B-3 .5-5	L2475966-06 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	- - not applicable - -
8082A	B-3 .5-5	L2475966-06 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	- - not applicable - -

ORGANICS

VOLATILES

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-02
 Client ID: B-1 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:15
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 141,8260D
 Analytical Date: 01/02/25 17:32
 Analyst: LAC
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.5	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	1.0	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	1.1		ug/kg	0.50	--	1
Chlorobenzene	ND		ug/kg	0.50	--	1
Trichlorofluoromethane	ND		ug/kg	4.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	--	1
Bromodichloromethane	ND		ug/kg	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--	1
1,1-Dichloropropene	ND		ug/kg	0.50	--	1
Bromoform	ND		ug/kg	4.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--	1
Benzene	ND		ug/kg	0.50	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.0	--	1
Bromomethane	ND		ug/kg	2.0	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	2.0	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-02

Date Collected: 12/20/24 09:15

Client ID: B-1 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	--	1
Methyl tert butyl ether	ND		ug/kg	2.0	--	1
p/m-Xylene	ND		ug/kg	2.0	--	1
o-Xylene	ND		ug/kg	1.0	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	2.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	ND		ug/kg	25	--	1
Carbon disulfide	ND		ug/kg	10	--	1
Methyl ethyl ketone	ND		ug/kg	10	--	1
Methyl isobutyl ketone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	2.0	--	1
Tetrahydrofuran	ND		ug/kg	4.0	--	1
2,2-Dichloropropane	ND		ug/kg	2.0	--	1
1,2-Dibromoethane	ND		ug/kg	1.0	--	1
1,3-Dichloropropane	ND		ug/kg	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--	1
Bromobenzene	ND		ug/kg	2.0	--	1
n-Butylbenzene	ND		ug/kg	1.0	--	1
sec-Butylbenzene	ND		ug/kg	1.0	--	1
tert-Butylbenzene	ND		ug/kg	2.0	--	1
o-Chlorotoluene	ND		ug/kg	2.0	--	1
p-Chlorotoluene	ND		ug/kg	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--	1
Hexachlorobutadiene	ND		ug/kg	4.0	--	1
Isopropylbenzene	ND		ug/kg	1.0	--	1
p-Isopropyltoluene	ND		ug/kg	1.0	--	1
Naphthalene	ND		ug/kg	4.0	--	1
n-Propylbenzene	ND		ug/kg	1.0	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-02**Date Collected:** 12/20/24 09:15**Client ID:** B-1 .5-5**Date Received:** 12/24/24**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--	1
Diethyl ether	ND		ug/kg	2.0	--	1
Diisopropyl Ether	ND		ug/kg	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--	1
1,4-Dioxane	ND		ug/kg	80	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	99		70-130

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-06
 Client ID: B-3 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:45
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 141,8260D
 Analytical Date: 01/02/25 17:58
 Analyst: LAC
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.7	--	1
Carbon tetrachloride	ND		ug/kg	1.1	--	1
1,2-Dichloropropane	ND		ug/kg	1.1	--	1
Dibromochloromethane	ND		ug/kg	1.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.56	--	1
Chlorobenzene	ND		ug/kg	0.56	--	1
Trichlorofluoromethane	ND		ug/kg	4.5	--	1
1,2-Dichloroethane	ND		ug/kg	1.1	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	--	1
Bromodichloromethane	ND		ug/kg	0.56	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	--	1
1,1-Dichloropropene	ND		ug/kg	0.56	--	1
Bromoform	ND		ug/kg	4.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	--	1
Benzene	ND		ug/kg	0.56	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	1.1	--	1
Chloromethane	ND		ug/kg	4.5	--	1
Bromomethane	ND		ug/kg	2.3	--	1
Vinyl chloride	ND		ug/kg	1.1	--	1
Chloroethane	ND		ug/kg	2.3	--	1
1,1-Dichloroethene	ND		ug/kg	1.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-06

Date Collected: 12/20/24 09:45

Client ID: B-3 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	--	1
Methyl tert butyl ether	ND		ug/kg	2.3	--	1
p/m-Xylene	ND		ug/kg	2.3	--	1
o-Xylene	ND		ug/kg	1.1	--	1
Xylenes, Total	ND		ug/kg	1.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	--	1
Dibromomethane	ND		ug/kg	2.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	--	1
Styrene	ND		ug/kg	1.1	--	1
Dichlorodifluoromethane	ND		ug/kg	11	--	1
Acetone	ND		ug/kg	28	--	1
Carbon disulfide	ND		ug/kg	11	--	1
Methyl ethyl ketone	ND		ug/kg	11	--	1
Methyl isobutyl ketone	ND		ug/kg	11	--	1
2-Hexanone	ND		ug/kg	11	--	1
Bromochloromethane	ND		ug/kg	2.3	--	1
Tetrahydrofuran	ND		ug/kg	4.5	--	1
2,2-Dichloropropane	ND		ug/kg	2.3	--	1
1,2-Dibromoethane	ND		ug/kg	1.1	--	1
1,3-Dichloropropane	ND		ug/kg	2.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	--	1
Bromobenzene	ND		ug/kg	2.3	--	1
n-Butylbenzene	ND		ug/kg	1.1	--	1
sec-Butylbenzene	ND		ug/kg	1.1	--	1
tert-Butylbenzene	ND		ug/kg	2.3	--	1
o-Chlorotoluene	ND		ug/kg	2.3	--	1
p-Chlorotoluene	ND		ug/kg	2.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	--	1
Hexachlorobutadiene	ND		ug/kg	4.5	--	1
Isopropylbenzene	ND		ug/kg	1.1	--	1
p-Isopropyltoluene	ND		ug/kg	1.1	--	1
Naphthalene	ND		ug/kg	4.5	--	1
n-Propylbenzene	ND		ug/kg	1.1	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-06

Date Collected: 12/20/24 09:45

Client ID: B-3 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	--	1
Diethyl ether	ND		ug/kg	2.3	--	1
Diisopropyl Ether	ND		ug/kg	2.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.3	--	1
1,4-Dioxane	ND		ug/kg	90	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	99		70-130

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-08
 Client ID: B-4 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:05
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 141,8260D
 Analytical Date: 01/02/25 18:24
 Analyst: LAC
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.95	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.95	--	1
1,2-Dichloropropane	ND		ug/kg	0.95	--	1
Dibromochloromethane	ND		ug/kg	0.95	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	--	1
Tetrachloroethene	0.67		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.95	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.95	--	1
Ethylbenzene	ND		ug/kg	0.95	--	1
Chloromethane	ND		ug/kg	3.8	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.95	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.95	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-08

Date Collected: 12/20/24 10:05

Client ID: B-4 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.95	--	1
Xylenes, Total	ND		ug/kg	0.95	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.95	--	1
Dichlorodifluoromethane	ND		ug/kg	9.5	--	1
Acetone	ND		ug/kg	24	--	1
Carbon disulfide	ND		ug/kg	9.5	--	1
Methyl ethyl ketone	ND		ug/kg	9.5	--	1
Methyl isobutyl ketone	ND		ug/kg	9.5	--	1
2-Hexanone	ND		ug/kg	9.5	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.8	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.95	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.95	--	1
sec-Butylbenzene	ND		ug/kg	0.95	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.8	--	1
Isopropylbenzene	ND		ug/kg	0.95	--	1
p-Isopropyltoluene	ND		ug/kg	0.95	--	1
Naphthalene	ND		ug/kg	3.8	--	1
n-Propylbenzene	ND		ug/kg	0.95	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-08

Date Collected: 12/20/24 10:05

Client ID: B-4 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	76	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	98		70-130

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-12
 Client ID: B-6 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:40
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 141,8260D
 Analytical Date: 01/02/25 18:50
 Analyst: LAC
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.3	--	1
Chloroform	ND		ug/kg	2.0	--	1
Carbon tetrachloride	ND		ug/kg	1.3	--	1
1,2-Dichloropropane	ND		ug/kg	1.3	--	1
Dibromochloromethane	ND		ug/kg	1.3	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	--	1
Tetrachloroethene	ND		ug/kg	0.66	--	1
Chlorobenzene	ND		ug/kg	0.66	--	1
Trichlorofluoromethane	ND		ug/kg	5.3	--	1
1,2-Dichloroethane	ND		ug/kg	1.3	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	--	1
Bromodichloromethane	ND		ug/kg	0.66	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	--	1
1,1-Dichloropropene	ND		ug/kg	0.66	--	1
Bromoform	ND		ug/kg	5.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	--	1
Benzene	ND		ug/kg	0.66	--	1
Toluene	ND		ug/kg	1.3	--	1
Ethylbenzene	ND		ug/kg	1.3	--	1
Chloromethane	ND		ug/kg	5.3	--	1
Bromomethane	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	1.3	--	1
Chloroethane	ND		ug/kg	2.6	--	1
1,1-Dichloroethene	ND		ug/kg	1.3	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-12

Date Collected: 12/20/24 10:40

Client ID: B-6 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	--	1
Methyl tert butyl ether	ND		ug/kg	2.6	--	1
p/m-Xylene	ND		ug/kg	2.6	--	1
o-Xylene	ND		ug/kg	1.3	--	1
Xylenes, Total	ND		ug/kg	1.3	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	--	1
Dibromomethane	ND		ug/kg	2.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	--	1
Styrene	ND		ug/kg	1.3	--	1
Dichlorodifluoromethane	ND		ug/kg	13	--	1
Acetone	ND		ug/kg	33	--	1
Carbon disulfide	ND		ug/kg	13	--	1
Methyl ethyl ketone	ND		ug/kg	13	--	1
Methyl isobutyl ketone	ND		ug/kg	13	--	1
2-Hexanone	ND		ug/kg	13	--	1
Bromochloromethane	ND		ug/kg	2.6	--	1
Tetrahydrofuran	ND		ug/kg	5.3	--	1
2,2-Dichloropropane	ND		ug/kg	2.6	--	1
1,2-Dibromoethane	ND		ug/kg	1.3	--	1
1,3-Dichloropropane	ND		ug/kg	2.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	--	1
Bromobenzene	ND		ug/kg	2.6	--	1
n-Butylbenzene	ND		ug/kg	1.3	--	1
sec-Butylbenzene	ND		ug/kg	1.3	--	1
tert-Butylbenzene	ND		ug/kg	2.6	--	1
o-Chlorotoluene	ND		ug/kg	2.6	--	1
p-Chlorotoluene	ND		ug/kg	2.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--	1
Hexachlorobutadiene	ND		ug/kg	5.3	--	1
Isopropylbenzene	ND		ug/kg	1.3	--	1
p-Isopropyltoluene	ND		ug/kg	1.3	--	1
Naphthalene	ND		ug/kg	5.3	--	1
n-Propylbenzene	ND		ug/kg	1.3	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-12**Date Collected:** 12/20/24 10:40**Client ID:** B-6 .5-5**Date Received:** 12/24/24**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	--	1
Diethyl ether	ND		ug/kg	2.6	--	1
Diisopropyl Ether	ND		ug/kg	2.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.6	--	1
1,4-Dioxane	ND		ug/kg	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	100		70-130

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-14
 Client ID: B-7 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:10
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 141,8260D
 Analytical Date: 01/02/25 19:16
 Analyst: LAC
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.8	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	1.4		ug/kg	0.59	--	1
Chlorobenzene	ND		ug/kg	0.59	--	1
Trichlorofluoromethane	ND		ug/kg	4.7	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	--	1
Bromodichloromethane	ND		ug/kg	0.59	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	--	1
1,1-Dichloropropene	ND		ug/kg	0.59	--	1
Bromoform	ND		ug/kg	4.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	--	1
Benzene	ND		ug/kg	0.59	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.7	--	1
Bromomethane	ND		ug/kg	2.4	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.4	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-14

Date Collected: 12/20/24 11:10

Client ID: B-7 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	--	1
Methyl tert butyl ether	ND		ug/kg	2.4	--	1
p/m-Xylene	ND		ug/kg	2.4	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	ND		ug/kg	30	--	1
Carbon disulfide	ND		ug/kg	12	--	1
Methyl ethyl ketone	ND		ug/kg	12	--	1
Methyl isobutyl ketone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Bromochloromethane	ND		ug/kg	2.4	--	1
Tetrahydrofuran	ND		ug/kg	4.7	--	1
2,2-Dichloropropane	ND		ug/kg	2.4	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	--	1
Bromobenzene	ND		ug/kg	2.4	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.4	--	1
o-Chlorotoluene	ND		ug/kg	2.4	--	1
p-Chlorotoluene	ND		ug/kg	2.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	--	1
Hexachlorobutadiene	ND		ug/kg	4.7	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.7	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-14**Date Collected:** 12/20/24 11:10**Client ID:** B-7 .5-5**Date Received:** 12/24/24**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	--	1
Diethyl ether	ND		ug/kg	2.4	--	1
Diisopropyl Ether	ND		ug/kg	2.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.4	--	1
1,4-Dioxane	ND		ug/kg	95	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	99		70-130

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-16
 Client ID: B-8 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:30
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 141,8260D
 Analytical Date: 01/02/25 19:42
 Analyst: LAC
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.3	--	1
Chloroform	ND		ug/kg	2.0	--	1
Carbon tetrachloride	ND		ug/kg	1.3	--	1
1,2-Dichloropropane	ND		ug/kg	1.3	--	1
Dibromochloromethane	ND		ug/kg	1.3	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	--	1
Tetrachloroethene	1.3		ug/kg	0.66	--	1
Chlorobenzene	ND		ug/kg	0.66	--	1
Trichlorofluoromethane	ND		ug/kg	5.2	--	1
1,2-Dichloroethane	ND		ug/kg	1.3	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	--	1
Bromodichloromethane	ND		ug/kg	0.66	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	--	1
1,1-Dichloropropene	ND		ug/kg	0.66	--	1
Bromoform	ND		ug/kg	5.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	--	1
Benzene	ND		ug/kg	0.66	--	1
Toluene	ND		ug/kg	1.3	--	1
Ethylbenzene	ND		ug/kg	1.3	--	1
Chloromethane	ND		ug/kg	5.2	--	1
Bromomethane	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	1.3	--	1
Chloroethane	ND		ug/kg	2.6	--	1
1,1-Dichloroethene	ND		ug/kg	1.3	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-16

Date Collected: 12/20/24 11:30

Client ID: B-8 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	--	1
Methyl tert butyl ether	ND		ug/kg	2.6	--	1
p/m-Xylene	ND		ug/kg	2.6	--	1
o-Xylene	ND		ug/kg	1.3	--	1
Xylenes, Total	ND		ug/kg	1.3	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	--	1
Dibromomethane	ND		ug/kg	2.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	--	1
Styrene	ND		ug/kg	1.3	--	1
Dichlorodifluoromethane	ND		ug/kg	13	--	1
Acetone	ND		ug/kg	33	--	1
Carbon disulfide	ND		ug/kg	13	--	1
Methyl ethyl ketone	ND		ug/kg	13	--	1
Methyl isobutyl ketone	ND		ug/kg	13	--	1
2-Hexanone	ND		ug/kg	13	--	1
Bromochloromethane	ND		ug/kg	2.6	--	1
Tetrahydrofuran	ND		ug/kg	5.2	--	1
2,2-Dichloropropane	ND		ug/kg	2.6	--	1
1,2-Dibromoethane	ND		ug/kg	1.3	--	1
1,3-Dichloropropane	ND		ug/kg	2.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	--	1
Bromobenzene	ND		ug/kg	2.6	--	1
n-Butylbenzene	ND		ug/kg	1.3	--	1
sec-Butylbenzene	ND		ug/kg	1.3	--	1
tert-Butylbenzene	ND		ug/kg	2.6	--	1
o-Chlorotoluene	ND		ug/kg	2.6	--	1
p-Chlorotoluene	ND		ug/kg	2.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	--	1
Hexachlorobutadiene	ND		ug/kg	5.2	--	1
Isopropylbenzene	ND		ug/kg	1.3	--	1
p-Isopropyltoluene	ND		ug/kg	1.3	--	1
Naphthalene	ND		ug/kg	5.2	--	1
n-Propylbenzene	ND		ug/kg	1.3	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-16

Date Collected: 12/20/24 11:30

Client ID: B-8 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	--	1
Diethyl ether	ND		ug/kg	2.6	--	1
Diisopropyl Ether	ND		ug/kg	2.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.6	--	1
1,4-Dioxane	ND		ug/kg	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	98		70-130

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-18
 Client ID: B-9 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:50
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 141,8260D
 Analytical Date: 01/02/25 10:44
 Analyst: AJK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.1	--	1
1,2-Dichloropropane	ND		ug/kg	1.1	--	1
Dibromochloromethane	ND		ug/kg	1.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.55	--	1
Chlorobenzene	ND		ug/kg	0.55	--	1
Trichlorofluoromethane	ND		ug/kg	4.4	--	1
1,2-Dichloroethane	ND		ug/kg	1.1	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	--	1
Bromodichloromethane	ND		ug/kg	0.55	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	--	1
1,1-Dichloropropene	ND		ug/kg	0.55	--	1
Bromoform	ND		ug/kg	4.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	--	1
Benzene	ND		ug/kg	0.55	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	1.1	--	1
Chloromethane	ND		ug/kg	4.4	--	1
Bromomethane	ND		ug/kg	2.2	--	1
Vinyl chloride	ND		ug/kg	1.1	--	1
Chloroethane	ND		ug/kg	2.2	--	1
1,1-Dichloroethene	ND		ug/kg	1.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-18

Date Collected: 12/20/24 11:50

Client ID: B-9 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	--	1
Methyl tert butyl ether	ND		ug/kg	2.2	--	1
p/m-Xylene	ND		ug/kg	2.2	--	1
o-Xylene	ND		ug/kg	1.1	--	1
Xylenes, Total	ND		ug/kg	1.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	--	1
Dibromomethane	ND		ug/kg	2.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	--	1
Styrene	ND		ug/kg	1.1	--	1
Dichlorodifluoromethane	ND		ug/kg	11	--	1
Acetone	ND		ug/kg	27	--	1
Carbon disulfide	ND		ug/kg	11	--	1
Methyl ethyl ketone	ND		ug/kg	11	--	1
Methyl isobutyl ketone	ND		ug/kg	11	--	1
2-Hexanone	ND		ug/kg	11	--	1
Bromochloromethane	ND		ug/kg	2.2	--	1
Tetrahydrofuran	ND		ug/kg	4.4	--	1
2,2-Dichloropropane	ND		ug/kg	2.2	--	1
1,2-Dibromoethane	ND		ug/kg	1.1	--	1
1,3-Dichloropropane	ND		ug/kg	2.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	--	1
Bromobenzene	ND		ug/kg	2.2	--	1
n-Butylbenzene	ND		ug/kg	1.1	--	1
sec-Butylbenzene	ND		ug/kg	1.1	--	1
tert-Butylbenzene	ND		ug/kg	2.2	--	1
o-Chlorotoluene	ND		ug/kg	2.2	--	1
p-Chlorotoluene	ND		ug/kg	2.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	--	1
Hexachlorobutadiene	ND		ug/kg	4.4	--	1
Isopropylbenzene	ND		ug/kg	1.1	--	1
p-Isopropyltoluene	ND		ug/kg	1.1	--	1
Naphthalene	ND		ug/kg	4.4	--	1
n-Propylbenzene	ND		ug/kg	1.1	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-18

Date Collected: 12/20/24 11:50

Client ID: B-9 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	--	1
Diethyl ether	ND		ug/kg	2.2	--	1
Diisopropyl Ether	ND		ug/kg	2.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.2	--	1
1,4-Dioxane	ND		ug/kg	87	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	93		70-130

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 01/02/25 10:01
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06,08,12,14,16 Batch: WG2015783-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 01/02/25 10:01
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06,08,12,14,16 Batch: WG2015783-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 01/02/25 10:01
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06,08,12,14,16 Batch: WG2015783-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	99		70-130



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 01/02/25 10:05
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18 Batch: WG2016027-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 01/02/25 10:05
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18 Batch: WG2016027-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 01/02/25 10:05
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18 Batch: WG2016027-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	90		70-130



Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,06,08,12,14,16 Batch: WG2015783-3 WG2015783-4								
Methylene chloride	90		86		70-130	5		20
1,1-Dichloroethane	93		89		70-130	4		20
Chloroform	94		94		70-130	0		20
Carbon tetrachloride	101		100		70-130	1		20
1,2-Dichloropropane	84		86		70-130	2		20
Dibromochloromethane	92		92		70-130	0		20
1,1,2-Trichloroethane	92		92		70-130	0		20
Tetrachloroethene	115		115		70-130	0		20
Chlorobenzene	99		99		70-130	0		20
Trichlorofluoromethane	124		118		70-130	5		20
1,2-Dichloroethane	85		85		70-130	0		20
1,1,1-Trichloroethane	95		95		70-130	0		20
Bromodichloromethane	85		88		70-130	3		20
trans-1,3-Dichloropropene	93		92		70-130	1		20
cis-1,3-Dichloropropene	92		95		70-130	3		20
1,1-Dichloropropene	98		98		70-130	0		20
Bromoform	102		100		70-130	2		20
1,1,2,2-Tetrachloroethane	90		85		70-130	6		20
Benzene	91		92		70-130	1		20
Toluene	94		92		70-130	2		20
Ethylbenzene	96		96		70-130	0		20
Chloromethane	96		86		70-130	11		20
Bromomethane	142	Q	132	Q	70-130	7		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,06,08,12,14,16 Batch: WG2015783-3 WG2015783-4								
Vinyl chloride	110		100		70-130	10		20
Chloroethane	115		105		70-130	9		20
1,1-Dichloroethene	103		98		70-130	5		20
trans-1,2-Dichloroethene	102		98		70-130	4		20
Trichloroethene	103		106		70-130	3		20
1,2-Dichlorobenzene	101		101		70-130	0		20
1,3-Dichlorobenzene	106		106		70-130	0		20
1,4-Dichlorobenzene	103		102		70-130	1		20
Methyl tert butyl ether	89		86		70-130	3		20
p/m-Xylene	99		100		70-130	1		20
o-Xylene	98		97		70-130	1		20
cis-1,2-Dichloroethene	92		90		70-130	2		20
Dibromomethane	87		89		70-130	2		20
1,2,3-Trichloropropane	87		86		70-130	1		20
Styrene	96		96		70-130	0		20
Dichlorodifluoromethane	108		97		70-130	11		20
Acetone	86		77		70-130	11		20
Carbon disulfide	104		100		70-130	4		20
Methyl ethyl ketone	72		83		70-130	14		20
Methyl isobutyl ketone	80		78		70-130	3		20
2-Hexanone	81		79		70-130	3		20
Bromochloromethane	96		94		70-130	2		20
Tetrahydrofuran	93		90		70-130	3		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,06,08,12,14,16 Batch: WG2015783-3 WG2015783-4								
2,2-Dichloropropane	96		91		70-130	5		20
1,2-Dibromoethane	98		98		70-130	0		20
1,3-Dichloropropane	91		91		70-130	0		20
1,1,1,2-Tetrachloroethane	97		97		70-130	0		20
Bromobenzene	102		102		70-130	0		20
n-Butylbenzene	112		111		70-130	1		20
sec-Butylbenzene	101		100		70-130	1		20
tert-Butylbenzene	99		98		70-130	1		20
o-Chlorotoluene	99		104		70-130	5		20
p-Chlorotoluene	100		99		70-130	1		20
1,2-Dibromo-3-chloropropane	100		98		70-130	2		20
Hexachlorobutadiene	115		114		70-130	1		20
Isopropylbenzene	100		98		70-130	2		20
p-Isopropyltoluene	105		104		70-130	1		20
Naphthalene	102		103		70-130	1		20
n-Propylbenzene	101		99		70-130	2		20
1,2,3-Trichlorobenzene	113		113		70-130	0		20
1,2,4-Trichlorobenzene	119		120		70-130	1		20
1,3,5-Trimethylbenzene	98		97		70-130	1		20
1,2,4-Trimethylbenzene	98		97		70-130	1		20
Diethyl ether	92		88		70-130	4		20
Diisopropyl Ether	80		77		70-130	4		20
Ethyl-Tert-Butyl-Ether	85		83		70-130	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,06,08,12,14,16 Batch: WG2015783-3 WG2015783-4								
Tertiary-Amyl Methyl Ether	85		85		70-130	0		20
1,4-Dioxane	108		112		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	84		84		70-130
Toluene-d8	94		93		70-130
4-Bromofluorobenzene	90		89		70-130
Dibromofluoromethane	95		95		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18 Batch: WG2016027-3 WG2016027-4								
Methylene chloride	86		87		70-130	1		20
1,1-Dichloroethane	98		100		70-130	2		20
Chloroform	88		90		70-130	2		20
Carbon tetrachloride	84		86		70-130	2		20
1,2-Dichloropropane	100		103		70-130	3		20
Dibromochloromethane	83		87		70-130	5		20
1,1,2-Trichloroethane	87		92		70-130	6		20
Tetrachloroethene	92		93		70-130	1		20
Chlorobenzene	87		89		70-130	2		20
Trichlorofluoromethane	92		93		70-130	1		20
1,2-Dichloroethane	88		89		70-130	1		20
1,1,1-Trichloroethane	83		84		70-130	1		20
Bromodichloromethane	86		88		70-130	2		20
trans-1,3-Dichloropropene	82		87		70-130	6		20
cis-1,3-Dichloropropene	92		96		70-130	4		20
1,1-Dichloropropene	95		95		70-130	0		20
Bromoform	74		81		70-130	9		20
1,1,2,2-Tetrachloroethane	88		86		70-130	2		20
Benzene	92		93		70-130	1		20
Toluene	86		88		70-130	2		20
Ethylbenzene	89		91		70-130	2		20
Chloromethane	111		110		70-130	1		20
Bromomethane	111		113		70-130	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18 Batch: WG2016027-3 WG2016027-4								
Vinyl chloride	93		90		70-130	3		20
Chloroethane	106		107		70-130	1		20
1,1-Dichloroethene	97		97		70-130	0		20
trans-1,2-Dichloroethene	96		97		70-130	1		20
Trichloroethene	92		98		70-130	6		20
1,2-Dichlorobenzene	87		89		70-130	2		20
1,3-Dichlorobenzene	88		89		70-130	1		20
1,4-Dichlorobenzene	89		90		70-130	1		20
Methyl tert butyl ether	86		88		70-130	2		20
p/m-Xylene	86		87		70-130	1		20
o-Xylene	85		86		70-130	1		20
cis-1,2-Dichloroethene	89		90		70-130	1		20
Dibromomethane	81		83		70-130	2		20
1,2,3-Trichloropropane	90		94		70-130	4		20
Styrene	84		86		70-130	2		20
Dichlorodifluoromethane	83		81		70-130	2		20
Acetone	133	Q	131	Q	70-130	2		20
Carbon disulfide	88		89		70-130	1		20
Methyl ethyl ketone	96		98		70-130	2		20
Methyl isobutyl ketone	95		99		70-130	4		20
2-Hexanone	85		88		70-130	3		20
Bromochloromethane	84		86		70-130	2		20
Tetrahydrofuran	94		95		70-130	1		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18 Batch: WG2016027-3 WG2016027-4								
2,2-Dichloropropane	80		82		70-130	2		20
1,2-Dibromoethane	82		86		70-130	5		20
1,3-Dichloropropane	90		93		70-130	3		20
1,1,1,2-Tetrachloroethane	85		88		70-130	3		20
Bromobenzene	84		86		70-130	2		20
n-Butylbenzene	92		92		70-130	0		20
sec-Butylbenzene	92		93		70-130	1		20
tert-Butylbenzene	89		90		70-130	1		20
o-Chlorotoluene	89		91		70-130	2		20
p-Chlorotoluene	92		94		70-130	2		20
1,2-Dibromo-3-chloropropane	77		81		70-130	5		20
Hexachlorobutadiene	107		106		70-130	1		20
Isopropylbenzene	90		92		70-130	2		20
p-Isopropyltoluene	91		91		70-130	0		20
Naphthalene	94		94		70-130	0		20
n-Propylbenzene	94		95		70-130	1		20
1,2,3-Trichlorobenzene	98		92		70-130	6		20
1,2,4-Trichlorobenzene	108		106		70-130	2		20
1,3,5-Trimethylbenzene	88		90		70-130	2		20
1,2,4-Trimethylbenzene	89		90		70-130	1		20
Diethyl ether	102		106		70-130	4		20
Diisopropyl Ether	106		110		70-130	4		20
Ethyl-Tert-Butyl-Ether	88		92		70-130	4		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18 Batch: WG2016027-3 WG2016027-4								
Tertiary-Amyl Methyl Ether	82		85		70-130	4		20
1,4-Dioxane	95		87		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		94		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	94		92		70-130

PETROLEUM HYDROCARBONS

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-01
 Client ID: B-1 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:20
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 11:29
 Analyst: MTC
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.95	--	1
C19-C36 Aliphatics	ND		mg/kg	7.95	--	1
C11-C22 Aromatics	12.2		mg/kg	7.95	--	1
C11-C22 Aromatics, Adjusted	12.2		mg/kg	7.95	--	1
Naphthalene	ND		mg/kg	0.398	--	1
2-Methylnaphthalene	ND		mg/kg	0.398	--	1
Acenaphthylene	ND		mg/kg	0.398	--	1
Acenaphthene	ND		mg/kg	0.398	--	1
Fluorene	ND		mg/kg	0.398	--	1
Phenanthrene	ND		mg/kg	0.398	--	1
Anthracene	ND		mg/kg	0.398	--	1
Fluoranthene	ND		mg/kg	0.398	--	1
Pyrene	ND		mg/kg	0.398	--	1
Benzo(a)anthracene	ND		mg/kg	0.398	--	1
Chrysene	ND		mg/kg	0.398	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.398	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.398	--	1
Benzo(a)pyrene	ND		mg/kg	0.398	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.398	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.398	--	1
Benzo(ghi)perylene	ND		mg/kg	0.398	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-01

Date Collected: 12/20/24 09:20

Client ID: B-1 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	44		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	86		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-02
 Client ID: B-1 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:15
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 11:54
 Analyst: MTC
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.48	--	1
C19-C36 Aliphatics	39.7		mg/kg	7.48	--	1
C11-C22 Aromatics	15.8		mg/kg	7.48	--	1
C11-C22 Aromatics, Adjusted	15.8		mg/kg	7.48	--	1
Naphthalene	ND		mg/kg	0.374	--	1
2-Methylnaphthalene	ND		mg/kg	0.374	--	1
Acenaphthylene	ND		mg/kg	0.374	--	1
Acenaphthene	ND		mg/kg	0.374	--	1
Fluorene	ND		mg/kg	0.374	--	1
Phenanthrene	ND		mg/kg	0.374	--	1
Anthracene	ND		mg/kg	0.374	--	1
Fluoranthene	ND		mg/kg	0.374	--	1
Pyrene	ND		mg/kg	0.374	--	1
Benzo(a)anthracene	ND		mg/kg	0.374	--	1
Chrysene	ND		mg/kg	0.374	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.374	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.374	--	1
Benzo(a)pyrene	ND		mg/kg	0.374	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.374	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.374	--	1
Benzo(ghi)perylene	ND		mg/kg	0.374	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-02

Date Collected: 12/20/24 09:15

Client ID: B-1 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	48		40-140
o-Terphenyl	63		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	78		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-03
 Client ID: B-2 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:30
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 12:19
 Analyst: MTC
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		mg/kg	7.89	--	1
C19-C36 Aliphatics	ND		mg/kg	7.89	--	1
C11-C22 Aromatics	ND		mg/kg	7.89	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.89	--	1
Naphthalene	ND		mg/kg	0.395	--	1
2-Methylnaphthalene	ND		mg/kg	0.395	--	1
Acenaphthylene	ND		mg/kg	0.395	--	1
Acenaphthene	ND		mg/kg	0.395	--	1
Fluorene	ND		mg/kg	0.395	--	1
Phenanthrene	ND		mg/kg	0.395	--	1
Anthracene	ND		mg/kg	0.395	--	1
Fluoranthene	ND		mg/kg	0.395	--	1
Pyrene	ND		mg/kg	0.395	--	1
Benzo(a)anthracene	ND		mg/kg	0.395	--	1
Chrysene	ND		mg/kg	0.395	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.395	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.395	--	1
Benzo(a)pyrene	ND		mg/kg	0.395	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.395	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.395	--	1
Benzo(ghi)perylene	ND		mg/kg	0.395	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-03

Date Collected: 12/20/24 09:30

Client ID: B-2 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	55		40-140
o-Terphenyl	76		40-140
2-Fluorobiphenyl	82		40-140
2-Bromonaphthalene	84		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-04
 Client ID: B-2 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:40
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 12:44
 Analyst: MTC
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.47	--	1
C19-C36 Aliphatics	10.3		mg/kg	7.47	--	1
C11-C22 Aromatics	8.84		mg/kg	7.47	--	1
C11-C22 Aromatics, Adjusted	8.84		mg/kg	7.47	--	1
Naphthalene	ND		mg/kg	0.374	--	1
2-Methylnaphthalene	ND		mg/kg	0.374	--	1
Acenaphthylene	ND		mg/kg	0.374	--	1
Acenaphthene	ND		mg/kg	0.374	--	1
Fluorene	ND		mg/kg	0.374	--	1
Phenanthrene	ND		mg/kg	0.374	--	1
Anthracene	ND		mg/kg	0.374	--	1
Fluoranthene	ND		mg/kg	0.374	--	1
Pyrene	ND		mg/kg	0.374	--	1
Benzo(a)anthracene	ND		mg/kg	0.374	--	1
Chrysene	ND		mg/kg	0.374	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.374	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.374	--	1
Benzo(a)pyrene	ND		mg/kg	0.374	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.374	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.374	--	1
Benzo(ghi)perylene	ND		mg/kg	0.374	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-04

Date Collected: 12/20/24 09:40

Client ID: B-2 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	73		40-140
2-Fluorobiphenyl	85		40-140
2-Bromonaphthalene	88		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-05
 Client ID: B-3 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:55
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 13:09
 Analyst: MTC
 Percent Solids: 65%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.80	--	1
C19-C36 Aliphatics	ND		mg/kg	9.80	--	1
C11-C22 Aromatics	12.0		mg/kg	9.80	--	1
C11-C22 Aromatics, Adjusted	12.0		mg/kg	9.80	--	1
Naphthalene	ND		mg/kg	0.490	--	1
2-Methylnaphthalene	ND		mg/kg	0.490	--	1
Acenaphthylene	ND		mg/kg	0.490	--	1
Acenaphthene	ND		mg/kg	0.490	--	1
Fluorene	ND		mg/kg	0.490	--	1
Phenanthrene	ND		mg/kg	0.490	--	1
Anthracene	ND		mg/kg	0.490	--	1
Fluoranthene	ND		mg/kg	0.490	--	1
Pyrene	ND		mg/kg	0.490	--	1
Benzo(a)anthracene	ND		mg/kg	0.490	--	1
Chrysene	ND		mg/kg	0.490	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.490	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.490	--	1
Benzo(a)pyrene	ND		mg/kg	0.490	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.490	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.490	--	1
Benzo(ghi)perylene	ND		mg/kg	0.490	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-05

Date Collected: 12/20/24 09:55

Client ID: B-3 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	42		40-140
o-Terphenyl	55		40-140
2-Fluorobiphenyl	82		40-140
2-Bromonaphthalene	83		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-06
 Client ID: B-3 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:45
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 13:34
 Analyst: MTC
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.58	--	1
C19-C36 Aliphatics	ND		mg/kg	8.58	--	1
C11-C22 Aromatics	17.4		mg/kg	8.58	--	1
C11-C22 Aromatics, Adjusted	17.4		mg/kg	8.58	--	1
Naphthalene	ND		mg/kg	0.429	--	1
2-Methylnaphthalene	ND		mg/kg	0.429	--	1
Acenaphthylene	ND		mg/kg	0.429	--	1
Acenaphthene	ND		mg/kg	0.429	--	1
Fluorene	ND		mg/kg	0.429	--	1
Phenanthrene	ND		mg/kg	0.429	--	1
Anthracene	ND		mg/kg	0.429	--	1
Fluoranthene	ND		mg/kg	0.429	--	1
Pyrene	ND		mg/kg	0.429	--	1
Benzo(a)anthracene	ND		mg/kg	0.429	--	1
Chrysene	ND		mg/kg	0.429	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.429	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.429	--	1
Benzo(a)pyrene	ND		mg/kg	0.429	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.429	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.429	--	1
Benzo(ghi)perylene	ND		mg/kg	0.429	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-06

Date Collected: 12/20/24 09:45

Client ID: B-3 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	52		40-140
o-Terphenyl	72		40-140
2-Fluorobiphenyl	90		40-140
2-Bromonaphthalene	92		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-07
 Client ID: B-4 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:00
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 13:59
 Analyst: MTC
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		mg/kg	7.06	--	1
C19-C36 Aliphatics	ND		mg/kg	7.06	--	1
C11-C22 Aromatics	ND		mg/kg	7.06	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.06	--	1
Naphthalene	ND		mg/kg	0.353	--	1
2-Methylnaphthalene	ND		mg/kg	0.353	--	1
Acenaphthylene	ND		mg/kg	0.353	--	1
Acenaphthene	ND		mg/kg	0.353	--	1
Fluorene	ND		mg/kg	0.353	--	1
Phenanthrene	ND		mg/kg	0.353	--	1
Anthracene	ND		mg/kg	0.353	--	1
Fluoranthene	ND		mg/kg	0.353	--	1
Pyrene	ND		mg/kg	0.353	--	1
Benzo(a)anthracene	ND		mg/kg	0.353	--	1
Chrysene	ND		mg/kg	0.353	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.353	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.353	--	1
Benzo(a)pyrene	ND		mg/kg	0.353	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.353	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.353	--	1
Benzo(ghi)perylene	ND		mg/kg	0.353	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-07

Date Collected: 12/20/24 10:00

Client ID: B-4 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	59		40-140
o-Terphenyl	73		40-140
2-Fluorobiphenyl	84		40-140
2-Bromonaphthalene	86		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-08
 Client ID: B-4 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:05
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 11:05
 Analyst: SBC
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.96	--	1
C19-C36 Aliphatics	ND		mg/kg	6.96	--	1
C11-C22 Aromatics	ND		mg/kg	6.96	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.96	--	1
Naphthalene	ND		mg/kg	0.348	--	1
2-Methylnaphthalene	ND		mg/kg	0.348	--	1
Acenaphthylene	ND		mg/kg	0.348	--	1
Acenaphthene	ND		mg/kg	0.348	--	1
Fluorene	ND		mg/kg	0.348	--	1
Phenanthrene	ND		mg/kg	0.348	--	1
Anthracene	ND		mg/kg	0.348	--	1
Fluoranthene	ND		mg/kg	0.348	--	1
Pyrene	ND		mg/kg	0.348	--	1
Benzo(a)anthracene	ND		mg/kg	0.348	--	1
Chrysene	ND		mg/kg	0.348	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.348	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.348	--	1
Benzo(a)pyrene	ND		mg/kg	0.348	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.348	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.348	--	1
Benzo(ghi)perylene	ND		mg/kg	0.348	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-08

Date Collected: 12/20/24 10:05

Client ID: B-4 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	68		40-140
2-Fluorobiphenyl	88		40-140
2-Bromonaphthalene	90		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-09
 Client ID: B-5 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:15
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 11:30
 Analyst: SBC
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.65	--	1
C19-C36 Aliphatics	ND		mg/kg	9.65	--	1
C11-C22 Aromatics	ND		mg/kg	9.65	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	9.65	--	1
Naphthalene	ND		mg/kg	0.482	--	1
2-Methylnaphthalene	ND		mg/kg	0.482	--	1
Acenaphthylene	ND		mg/kg	0.482	--	1
Acenaphthene	ND		mg/kg	0.482	--	1
Fluorene	ND		mg/kg	0.482	--	1
Phenanthrene	ND		mg/kg	0.482	--	1
Anthracene	ND		mg/kg	0.482	--	1
Fluoranthene	ND		mg/kg	0.482	--	1
Pyrene	ND		mg/kg	0.482	--	1
Benzo(a)anthracene	ND		mg/kg	0.482	--	1
Chrysene	ND		mg/kg	0.482	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.482	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.482	--	1
Benzo(a)pyrene	ND		mg/kg	0.482	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.482	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.482	--	1
Benzo(ghi)perylene	ND		mg/kg	0.482	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-09

Date Collected: 12/20/24 10:15

Client ID: B-5 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	85		40-140
2-Bromonaphthalene	86		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-10
 Client ID: B-5 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:25
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 11:55
 Analyst: SBC
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		mg/kg	7.10	--	1
C19-C36 Aliphatics	ND		mg/kg	7.10	--	1
C11-C22 Aromatics	ND		mg/kg	7.10	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.10	--	1
Naphthalene	ND		mg/kg	0.355	--	1
2-Methylnaphthalene	ND		mg/kg	0.355	--	1
Acenaphthylene	ND		mg/kg	0.355	--	1
Acenaphthene	ND		mg/kg	0.355	--	1
Fluorene	ND		mg/kg	0.355	--	1
Phenanthrene	ND		mg/kg	0.355	--	1
Anthracene	ND		mg/kg	0.355	--	1
Fluoranthene	ND		mg/kg	0.355	--	1
Pyrene	ND		mg/kg	0.355	--	1
Benzo(a)anthracene	ND		mg/kg	0.355	--	1
Chrysene	ND		mg/kg	0.355	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.355	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.355	--	1
Benzo(a)pyrene	ND		mg/kg	0.355	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.355	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.355	--	1
Benzo(ghi)perylene	ND		mg/kg	0.355	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-10

Date Collected: 12/20/24 10:25

Client ID: B-5 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	59		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	78		40-140
2-Bromonaphthalene	78		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-11
 Client ID: B-6 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:30
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 12:20
 Analyst: SBC
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.44	--	1
C19-C36 Aliphatics	ND		mg/kg	8.44	--	1
C11-C22 Aromatics	14.7		mg/kg	8.44	--	1
C11-C22 Aromatics, Adjusted	14.7		mg/kg	8.44	--	1
Naphthalene	ND		mg/kg	0.422	--	1
2-Methylnaphthalene	ND		mg/kg	0.422	--	1
Acenaphthylene	ND		mg/kg	0.422	--	1
Acenaphthene	ND		mg/kg	0.422	--	1
Fluorene	ND		mg/kg	0.422	--	1
Phenanthrene	ND		mg/kg	0.422	--	1
Anthracene	ND		mg/kg	0.422	--	1
Fluoranthene	ND		mg/kg	0.422	--	1
Pyrene	ND		mg/kg	0.422	--	1
Benzo(a)anthracene	ND		mg/kg	0.422	--	1
Chrysene	ND		mg/kg	0.422	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.422	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.422	--	1
Benzo(a)pyrene	ND		mg/kg	0.422	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.422	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.422	--	1
Benzo(ghi)perylene	ND		mg/kg	0.422	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-11

Date Collected: 12/20/24 10:30

Client ID: B-6 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	44		40-140
o-Terphenyl	47		40-140
2-Fluorobiphenyl	80		40-140
2-Bromonaphthalene	82		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-12
 Client ID: B-6 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:40
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 12:45
 Analyst: SBC
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 21:26
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.54	--	1
C19-C36 Aliphatics	8.92		mg/kg	7.54	--	1
C11-C22 Aromatics	12.2		mg/kg	7.54	--	1
C11-C22 Aromatics, Adjusted	12.2		mg/kg	7.54	--	1
Naphthalene	ND		mg/kg	0.377	--	1
2-Methylnaphthalene	ND		mg/kg	0.377	--	1
Acenaphthylene	ND		mg/kg	0.377	--	1
Acenaphthene	ND		mg/kg	0.377	--	1
Fluorene	ND		mg/kg	0.377	--	1
Phenanthrene	ND		mg/kg	0.377	--	1
Anthracene	ND		mg/kg	0.377	--	1
Fluoranthene	ND		mg/kg	0.377	--	1
Pyrene	ND		mg/kg	0.377	--	1
Benzo(a)anthracene	ND		mg/kg	0.377	--	1
Chrysene	ND		mg/kg	0.377	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.377	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.377	--	1
Benzo(a)pyrene	ND		mg/kg	0.377	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.377	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.377	--	1
Benzo(ghi)perylene	ND		mg/kg	0.377	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-12

Date Collected: 12/20/24 10:40

Client ID: B-6 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	45		40-140
o-Terphenyl	56		40-140
2-Fluorobiphenyl	79		40-140
2-Bromonaphthalene	81		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-13
 Client ID: B-7 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:00
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 13:10
 Analyst: SBC
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 22:23
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.98	--	1
C19-C36 Aliphatics	ND		mg/kg	7.98	--	1
C11-C22 Aromatics	ND		mg/kg	7.98	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.98	--	1
Naphthalene	ND		mg/kg	0.399	--	1
2-Methylnaphthalene	ND		mg/kg	0.399	--	1
Acenaphthylene	ND		mg/kg	0.399	--	1
Acenaphthene	ND		mg/kg	0.399	--	1
Fluorene	ND		mg/kg	0.399	--	1
Phenanthrene	ND		mg/kg	0.399	--	1
Anthracene	ND		mg/kg	0.399	--	1
Fluoranthene	ND		mg/kg	0.399	--	1
Pyrene	ND		mg/kg	0.399	--	1
Benzo(a)anthracene	ND		mg/kg	0.399	--	1
Chrysene	ND		mg/kg	0.399	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.399	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.399	--	1
Benzo(a)pyrene	ND		mg/kg	0.399	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.399	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.399	--	1
Benzo(ghi)perylene	ND		mg/kg	0.399	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-13

Date Collected: 12/20/24 11:00

Client ID: B-7 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	41		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	80		40-140
2-Bromonaphthalene	81		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-14
 Client ID: B-7 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:10
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 13:34
 Analyst: SBC
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 22:23
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		mg/kg	7.63	--	1
C19-C36 Aliphatics	14.5		mg/kg	7.63	--	1
C11-C22 Aromatics	29.0		mg/kg	7.63	--	1
C11-C22 Aromatics, Adjusted	18.3		mg/kg	7.63	--	1
Naphthalene	ND		mg/kg	0.382	--	1
2-Methylnaphthalene	ND		mg/kg	0.382	--	1
Acenaphthylene	ND		mg/kg	0.382	--	1
Acenaphthene	ND		mg/kg	0.382	--	1
Fluorene	ND		mg/kg	0.382	--	1
Phenanthrene	ND		mg/kg	0.382	--	1
Anthracene	ND		mg/kg	0.382	--	1
Fluoranthene	1.17		mg/kg	0.382	--	1
Pyrene	0.930		mg/kg	0.382	--	1
Benzo(a)anthracene	0.985		mg/kg	0.382	--	1
Chrysene	1.24		mg/kg	0.382	--	1
Benzo(b)fluoranthene	2.01		mg/kg	0.382	--	1
Benzo(k)fluoranthene	0.648		mg/kg	0.382	--	1
Benzo(a)pyrene	1.52		mg/kg	0.382	--	1
Indeno(1,2,3-cd)Pyrene	0.983		mg/kg	0.382	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.382	--	1
Benzo(ghi)perylene	1.22		mg/kg	0.382	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-14

Date Collected: 12/20/24 11:10

Client ID: B-7 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	75		40-140
2-Fluorobiphenyl	88		40-140
2-Bromonaphthalene	91		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-15
 Client ID: B-8 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:20
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 17:14
 Analyst: SBC
 Percent Solids: 70%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.24	--	1
C19-C36 Aliphatics	ND		mg/kg	9.24	--	1
C11-C22 Aromatics	ND		mg/kg	9.24	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	9.24	--	1
Naphthalene	ND		mg/kg	0.462	--	1
2-Methylnaphthalene	ND		mg/kg	0.462	--	1
Acenaphthylene	ND		mg/kg	0.462	--	1
Acenaphthene	ND		mg/kg	0.462	--	1
Fluorene	ND		mg/kg	0.462	--	1
Phenanthrene	ND		mg/kg	0.462	--	1
Anthracene	ND		mg/kg	0.462	--	1
Fluoranthene	ND		mg/kg	0.462	--	1
Pyrene	ND		mg/kg	0.462	--	1
Benzo(a)anthracene	ND		mg/kg	0.462	--	1
Chrysene	ND		mg/kg	0.462	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.462	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.462	--	1
Benzo(a)pyrene	ND		mg/kg	0.462	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.462	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.462	--	1
Benzo(ghi)perylene	ND		mg/kg	0.462	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-15

Date Collected: 12/20/24 11:20

Client ID: B-8 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	60		40-140
o-Terphenyl	58		40-140
2-Fluorobiphenyl	64		40-140
2-Bromonaphthalene	66		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-16
 Client ID: B-8 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:30
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 18:53
 Analyst: SBC
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.58	--	1
C19-C36 Aliphatics	ND		mg/kg	7.58	--	1
C11-C22 Aromatics	9.91		mg/kg	7.58	--	1
C11-C22 Aromatics, Adjusted	9.91		mg/kg	7.58	--	1
Naphthalene	ND		mg/kg	0.379	--	1
2-Methylnaphthalene	ND		mg/kg	0.379	--	1
Acenaphthylene	ND		mg/kg	0.379	--	1
Acenaphthene	ND		mg/kg	0.379	--	1
Fluorene	ND		mg/kg	0.379	--	1
Phenanthrene	ND		mg/kg	0.379	--	1
Anthracene	ND		mg/kg	0.379	--	1
Fluoranthene	ND		mg/kg	0.379	--	1
Pyrene	ND		mg/kg	0.379	--	1
Benzo(a)anthracene	ND		mg/kg	0.379	--	1
Chrysene	ND		mg/kg	0.379	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.379	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.379	--	1
Benzo(a)pyrene	ND		mg/kg	0.379	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.379	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.379	--	1
Benzo(ghi)perylene	ND		mg/kg	0.379	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-16

Date Collected: 12/20/24 11:30

Client ID: B-8 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	56		40-140
2-Fluorobiphenyl	60		40-140
2-Bromonaphthalene	62		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-17
 Client ID: B-9 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:40
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 21:21
 Analyst: SBC
 Percent Solids: 51%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	12.5	--	1
C19-C36 Aliphatics	28.5		mg/kg	12.5	--	1
C11-C22 Aromatics	30.2		mg/kg	12.5	--	1
C11-C22 Aromatics, Adjusted	29.5		mg/kg	12.5	--	1
Naphthalene	ND		mg/kg	0.623	--	1
2-Methylnaphthalene	ND		mg/kg	0.623	--	1
Acenaphthylene	ND		mg/kg	0.623	--	1
Acenaphthene	ND		mg/kg	0.623	--	1
Fluorene	ND		mg/kg	0.623	--	1
Phenanthrene	ND		mg/kg	0.623	--	1
Anthracene	ND		mg/kg	0.623	--	1
Fluoranthene	0.678		mg/kg	0.623	--	1
Pyrene	ND		mg/kg	0.623	--	1
Benzo(a)anthracene	ND		mg/kg	0.623	--	1
Chrysene	ND		mg/kg	0.623	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.623	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.623	--	1
Benzo(a)pyrene	ND		mg/kg	0.623	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.623	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.623	--	1
Benzo(ghi)perylene	ND		mg/kg	0.623	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-17

Date Collected: 12/20/24 11:40

Client ID: B-9 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	47		40-140
o-Terphenyl	54		40-140
2-Fluorobiphenyl	69		40-140
2-Bromonaphthalene	72		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-18
 Client ID: B-9 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:50
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 16:25
 Analyst: SBC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.86	--	1
C19-C36 Aliphatics	ND		mg/kg	6.86	--	1
C11-C22 Aromatics	ND		mg/kg	6.86	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.86	--	1
Naphthalene	ND		mg/kg	0.343	--	1
2-Methylnaphthalene	ND		mg/kg	0.343	--	1
Acenaphthylene	ND		mg/kg	0.343	--	1
Acenaphthene	ND		mg/kg	0.343	--	1
Fluorene	ND		mg/kg	0.343	--	1
Phenanthrene	ND		mg/kg	0.343	--	1
Anthracene	ND		mg/kg	0.343	--	1
Fluoranthene	ND		mg/kg	0.343	--	1
Pyrene	ND		mg/kg	0.343	--	1
Benzo(a)anthracene	ND		mg/kg	0.343	--	1
Chrysene	ND		mg/kg	0.343	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.343	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.343	--	1
Benzo(a)pyrene	ND		mg/kg	0.343	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.343	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.343	--	1
Benzo(ghi)perylene	ND		mg/kg	0.343	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-18

Date Collected: 12/20/24 11:50

Client ID: B-9 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	55		40-140
2-Fluorobiphenyl	60		40-140
2-Bromonaphthalene	62		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-19
 Client ID: B-10 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:00
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/02/25 13:59
 Analyst: SBC
 Percent Solids: 67%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 22:23
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/01/25

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.64	--	1
C19-C36 Aliphatics	ND		mg/kg	9.64	--	1
C11-C22 Aromatics	16.6		mg/kg	9.64	--	1
C11-C22 Aromatics, Adjusted	16.6		mg/kg	9.64	--	1
Naphthalene	ND		mg/kg	0.482	--	1
2-Methylnaphthalene	ND		mg/kg	0.482	--	1
Acenaphthylene	ND		mg/kg	0.482	--	1
Acenaphthene	ND		mg/kg	0.482	--	1
Fluorene	ND		mg/kg	0.482	--	1
Phenanthrene	ND		mg/kg	0.482	--	1
Anthracene	ND		mg/kg	0.482	--	1
Fluoranthene	ND		mg/kg	0.482	--	1
Pyrene	ND		mg/kg	0.482	--	1
Benzo(a)anthracene	ND		mg/kg	0.482	--	1
Chrysene	ND		mg/kg	0.482	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.482	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.482	--	1
Benzo(a)pyrene	ND		mg/kg	0.482	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.482	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.482	--	1
Benzo(ghi)perylene	ND		mg/kg	0.482	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-19

Date Collected: 12/20/24 12:00

Client ID: B-10 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	60		40-140
o-Terphenyl	68		40-140
2-Fluorobiphenyl	78		40-140
2-Bromonaphthalene	81		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-20
 Client ID: B-10 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:10
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 19:18
 Analyst: SBC
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.89	--	1
C19-C36 Aliphatics	ND		mg/kg	7.89	--	1
C11-C22 Aromatics	ND		mg/kg	7.89	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.89	--	1
Naphthalene	ND		mg/kg	0.394	--	1
2-Methylnaphthalene	ND		mg/kg	0.394	--	1
Acenaphthylene	ND		mg/kg	0.394	--	1
Acenaphthene	ND		mg/kg	0.394	--	1
Fluorene	ND		mg/kg	0.394	--	1
Phenanthrene	ND		mg/kg	0.394	--	1
Anthracene	ND		mg/kg	0.394	--	1
Fluoranthene	ND		mg/kg	0.394	--	1
Pyrene	ND		mg/kg	0.394	--	1
Benzo(a)anthracene	ND		mg/kg	0.394	--	1
Chrysene	ND		mg/kg	0.394	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.394	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.394	--	1
Benzo(a)pyrene	ND		mg/kg	0.394	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.394	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.394	--	1
Benzo(ghi)perylene	ND		mg/kg	0.394	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-20

Date Collected: 12/20/24 12:10

Client ID: B-10 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	70		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-21
 Client ID: B-11 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:20
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 17:39
 Analyst: SBC
 Percent Solids: 56%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	11.7	--	1
C19-C36 Aliphatics	ND		mg/kg	11.7	--	1
C11-C22 Aromatics	ND		mg/kg	11.7	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	11.7	--	1
Naphthalene	ND		mg/kg	0.586	--	1
2-Methylnaphthalene	ND		mg/kg	0.586	--	1
Acenaphthylene	ND		mg/kg	0.586	--	1
Acenaphthene	ND		mg/kg	0.586	--	1
Fluorene	ND		mg/kg	0.586	--	1
Phenanthrene	ND		mg/kg	0.586	--	1
Anthracene	ND		mg/kg	0.586	--	1
Fluoranthene	ND		mg/kg	0.586	--	1
Pyrene	ND		mg/kg	0.586	--	1
Benzo(a)anthracene	ND		mg/kg	0.586	--	1
Chrysene	ND		mg/kg	0.586	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.586	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.586	--	1
Benzo(a)pyrene	ND		mg/kg	0.586	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.586	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.586	--	1
Benzo(ghi)perylene	ND		mg/kg	0.586	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-21

Date Collected: 12/20/24 12:20

Client ID: B-11 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	49		40-140
2-Fluorobiphenyl	58		40-140
2-Bromonaphthalene	59		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-22
 Client ID: B-11 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:30
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 20:32
 Analyst: SBC
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.40	--	1
C19-C36 Aliphatics	31.2		mg/kg	8.40	--	1
C11-C22 Aromatics	40.0		mg/kg	8.40	--	1
C11-C22 Aromatics, Adjusted	31.9		mg/kg	8.40	--	1
Naphthalene	ND		mg/kg	0.420	--	1
2-Methylnaphthalene	ND		mg/kg	0.420	--	1
Acenaphthylene	ND		mg/kg	0.420	--	1
Acenaphthene	ND		mg/kg	0.420	--	1
Fluorene	ND		mg/kg	0.420	--	1
Phenanthrene	0.705		mg/kg	0.420	--	1
Anthracene	ND		mg/kg	0.420	--	1
Fluoranthene	1.22		mg/kg	0.420	--	1
Pyrene	1.09		mg/kg	0.420	--	1
Benzo(a)anthracene	0.582		mg/kg	0.420	--	1
Chrysene	0.800		mg/kg	0.420	--	1
Benzo(b)fluoranthene	1.06		mg/kg	0.420	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.420	--	1
Benzo(a)pyrene	1.06		mg/kg	0.420	--	1
Indeno(1,2,3-cd)Pyrene	0.713		mg/kg	0.420	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.420	--	1
Benzo(ghi)perylene	0.873		mg/kg	0.420	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-22

Date Collected: 12/20/24 12:30

Client ID: B-11 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	48		40-140
o-Terphenyl	60		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	71		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-23
 Client ID: B-12 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:40
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 18:03
 Analyst: SBC
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.83	--	1
C19-C36 Aliphatics	ND		mg/kg	8.83	--	1
C11-C22 Aromatics	9.51		mg/kg	8.83	--	1
C11-C22 Aromatics, Adjusted	9.51		mg/kg	8.83	--	1
Naphthalene	ND		mg/kg	0.442	--	1
2-Methylnaphthalene	ND		mg/kg	0.442	--	1
Acenaphthylene	ND		mg/kg	0.442	--	1
Acenaphthene	ND		mg/kg	0.442	--	1
Fluorene	ND		mg/kg	0.442	--	1
Phenanthrene	ND		mg/kg	0.442	--	1
Anthracene	ND		mg/kg	0.442	--	1
Fluoranthene	ND		mg/kg	0.442	--	1
Pyrene	ND		mg/kg	0.442	--	1
Benzo(a)anthracene	ND		mg/kg	0.442	--	1
Chrysene	ND		mg/kg	0.442	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.442	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.442	--	1
Benzo(a)pyrene	ND		mg/kg	0.442	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.442	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.442	--	1
Benzo(ghi)perylene	ND		mg/kg	0.442	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-23

Date Collected: 12/20/24 12:40

Client ID: B-12 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	55		40-140
2-Fluorobiphenyl	62		40-140
2-Bromonaphthalene	62		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-24
 Client ID: B-12 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:50
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 20:07
 Analyst: SBC
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.82	--	1
C19-C36 Aliphatics	50.2		mg/kg	7.82	--	1
C11-C22 Aromatics	41.0		mg/kg	7.82	--	1
C11-C22 Aromatics, Adjusted	41.0		mg/kg	7.82	--	1
Naphthalene	ND		mg/kg	0.391	--	1
2-Methylnaphthalene	ND		mg/kg	0.391	--	1
Acenaphthylene	ND		mg/kg	0.391	--	1
Acenaphthene	ND		mg/kg	0.391	--	1
Fluorene	ND		mg/kg	0.391	--	1
Phenanthrene	ND		mg/kg	0.391	--	1
Anthracene	ND		mg/kg	0.391	--	1
Fluoranthene	ND		mg/kg	0.391	--	1
Pyrene	ND		mg/kg	0.391	--	1
Benzo(a)anthracene	ND		mg/kg	0.391	--	1
Chrysene	ND		mg/kg	0.391	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.391	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.391	--	1
Benzo(a)pyrene	ND		mg/kg	0.391	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.391	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.391	--	1
Benzo(ghi)perylene	ND		mg/kg	0.391	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-24

Date Collected: 12/20/24 12:50

Client ID: B-12 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	67		40-140
2-Bromonaphthalene	70		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-25
 Client ID: B-13 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 13:00
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 18:28
 Analyst: SBC
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received:
 Sample Temperature upon receipt:
 Sample Extraction method:

Satisfactory
 Received on Ice
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.57	--	1
C19-C36 Aliphatics	ND		mg/kg	7.57	--	1
C11-C22 Aromatics	10.1		mg/kg	7.57	--	1
C11-C22 Aromatics, Adjusted	10.1		mg/kg	7.57	--	1
Naphthalene	ND		mg/kg	0.379	--	1
2-Methylnaphthalene	ND		mg/kg	0.379	--	1
Acenaphthylene	ND		mg/kg	0.379	--	1
Acenaphthene	ND		mg/kg	0.379	--	1
Fluorene	ND		mg/kg	0.379	--	1
Phenanthrene	ND		mg/kg	0.379	--	1
Anthracene	ND		mg/kg	0.379	--	1
Fluoranthene	ND		mg/kg	0.379	--	1
Pyrene	ND		mg/kg	0.379	--	1
Benzo(a)anthracene	ND		mg/kg	0.379	--	1
Chrysene	ND		mg/kg	0.379	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.379	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.379	--	1
Benzo(a)pyrene	ND		mg/kg	0.379	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.379	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.379	--	1
Benzo(ghi)perylene	ND		mg/kg	0.379	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-25

Date Collected: 12/20/24 13:00

Client ID: B-13 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	60		40-140
2-Bromonaphthalene	61		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-26
 Client ID: B-13 3-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 13:10
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 20:57
 Analyst: SBC
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.59	--	1
C19-C36 Aliphatics	22.6		mg/kg	8.59	--	1
C11-C22 Aromatics	22.1		mg/kg	8.59	--	1
C11-C22 Aromatics, Adjusted	21.6		mg/kg	8.59	--	1
Naphthalene	ND		mg/kg	0.430	--	1
2-Methylnaphthalene	ND		mg/kg	0.430	--	1
Acenaphthylene	ND		mg/kg	0.430	--	1
Acenaphthene	ND		mg/kg	0.430	--	1
Fluorene	ND		mg/kg	0.430	--	1
Phenanthrene	ND		mg/kg	0.430	--	1
Anthracene	ND		mg/kg	0.430	--	1
Fluoranthene	0.481		mg/kg	0.430	--	1
Pyrene	ND		mg/kg	0.430	--	1
Benzo(a)anthracene	ND		mg/kg	0.430	--	1
Chrysene	ND		mg/kg	0.430	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.430	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.430	--	1
Benzo(a)pyrene	ND		mg/kg	0.430	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.430	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.430	--	1
Benzo(ghi)perylene	ND		mg/kg	0.430	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-26

Date Collected: 12/20/24 13:10

Client ID: B-13 3-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	58		40-140
2-Fluorobiphenyl	67		40-140
2-Bromonaphthalene	70		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-27
 Client ID: B-14 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 13:20
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 19:42
 Analyst: SBC
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.72	--	1
C19-C36 Aliphatics	ND		mg/kg	7.72	--	1
C11-C22 Aromatics	ND		mg/kg	7.72	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.72	--	1
Naphthalene	ND		mg/kg	0.386	--	1
2-Methylnaphthalene	ND		mg/kg	0.386	--	1
Acenaphthylene	ND		mg/kg	0.386	--	1
Acenaphthene	ND		mg/kg	0.386	--	1
Fluorene	ND		mg/kg	0.386	--	1
Phenanthrene	ND		mg/kg	0.386	--	1
Anthracene	ND		mg/kg	0.386	--	1
Fluoranthene	ND		mg/kg	0.386	--	1
Pyrene	ND		mg/kg	0.386	--	1
Benzo(a)anthracene	ND		mg/kg	0.386	--	1
Chrysene	ND		mg/kg	0.386	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.386	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.386	--	1
Benzo(a)pyrene	ND		mg/kg	0.386	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.386	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.386	--	1
Benzo(ghi)perylene	ND		mg/kg	0.386	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-27

Date Collected: 12/20/24 13:20

Client ID: B-14 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	55		40-140
2-Fluorobiphenyl	60		40-140
2-Bromonaphthalene	62		40-140

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-28
 Client ID: B-14 2-4
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 13:30
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 16:49
 Analyst: SBC
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 10:12
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 12/31/24

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	9.81	--	1
C19-C36 Aliphatics	ND		mg/kg	9.81	--	1
C11-C22 Aromatics	ND		mg/kg	9.81	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	9.81	--	1
Naphthalene	ND		mg/kg	0.490	--	1
2-Methylnaphthalene	ND		mg/kg	0.490	--	1
Acenaphthylene	ND		mg/kg	0.490	--	1
Acenaphthene	ND		mg/kg	0.490	--	1
Fluorene	ND		mg/kg	0.490	--	1
Phenanthrene	ND		mg/kg	0.490	--	1
Anthracene	ND		mg/kg	0.490	--	1
Fluoranthene	ND		mg/kg	0.490	--	1
Pyrene	ND		mg/kg	0.490	--	1
Benzo(a)anthracene	ND		mg/kg	0.490	--	1
Chrysene	ND		mg/kg	0.490	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.490	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.490	--	1
Benzo(a)pyrene	ND		mg/kg	0.490	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.490	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.490	--	1
Benzo(ghi)perylene	ND		mg/kg	0.490	--	1



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-28

Date Collected: 12/20/24 13:30

Client ID: B-14 2-4

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	59		40-140
o-Terphenyl	54		40-140
2-Fluorobiphenyl	63		40-140
2-Bromonaphthalene	64		40-140

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Analytical Method: 135,EPH-19-2.1
 Analytical Date: 12/31/24 15:34
 Analyst: SBC

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 11:19
 Cleanup Method: EPH-19-2.1
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 15-18,20-28 Batch: WG2014554-1					
C9-C18 Aliphatics	ND		mg/kg	6.41	--
C19-C36 Aliphatics	ND		mg/kg	6.41	--
C11-C22 Aromatics	ND		mg/kg	6.41	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.41	--
Naphthalene	ND		mg/kg	0.320	--
2-Methylnaphthalene	ND		mg/kg	0.320	--
Acenaphthylene	ND		mg/kg	0.320	--
Acenaphthene	ND		mg/kg	0.320	--
Fluorene	ND		mg/kg	0.320	--
Phenanthrene	ND		mg/kg	0.320	--
Anthracene	ND		mg/kg	0.320	--
Fluoranthene	ND		mg/kg	0.320	--
Pyrene	ND		mg/kg	0.320	--
Benzo(a)anthracene	ND		mg/kg	0.320	--
Chrysene	ND		mg/kg	0.320	--
Benzo(b)fluoranthene	ND		mg/kg	0.320	--
Benzo(k)fluoranthene	ND		mg/kg	0.320	--
Benzo(a)pyrene	ND		mg/kg	0.320	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.320	--
Dibenzo(a,h)anthracene	ND		mg/kg	0.320	--
Benzo(ghi)perylene	ND		mg/kg	0.320	--



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 135,EPH-19-2.1
Analytical Date: 12/31/24 15:34
Analyst: SBC

Extraction Method: EPA 3546
Extraction Date: 12/29/24 11:19
Cleanup Method: EPH-19-2.1
Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 15-18,20-28 Batch: WG2014554-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	73		40-140
2-Bromonaphthalene	74		40-140

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Analytical Method: 135,EPH-19-2.1
Analytical Date: 01/02/25 11:04
Analyst: MTC

Extraction Method: EPA 3546
Extraction Date: 12/29/24 21:26
Cleanup Method: EPH-19-2.1
Cleanup Date: 01/01/25

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-14,19 Batch: WG2014644-1					
C9-C18 Aliphatics	ND		mg/kg	6.54	--
C19-C36 Aliphatics	ND		mg/kg	6.54	--
C11-C22 Aromatics	ND		mg/kg	6.54	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.54	--
Naphthalene	ND		mg/kg	0.327	--
2-Methylnaphthalene	ND		mg/kg	0.327	--
Acenaphthylene	ND		mg/kg	0.327	--
Acenaphthene	ND		mg/kg	0.327	--
Fluorene	ND		mg/kg	0.327	--
Phenanthrene	ND		mg/kg	0.327	--
Anthracene	ND		mg/kg	0.327	--
Fluoranthene	ND		mg/kg	0.327	--
Pyrene	ND		mg/kg	0.327	--
Benzo(a)anthracene	ND		mg/kg	0.327	--
Chrysene	ND		mg/kg	0.327	--
Benzo(b)fluoranthene	ND		mg/kg	0.327	--
Benzo(k)fluoranthene	ND		mg/kg	0.327	--
Benzo(a)pyrene	ND		mg/kg	0.327	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.327	--
Dibenzo(a,h)anthracene	ND		mg/kg	0.327	--
Benzo(ghi)perylene	ND		mg/kg	0.327	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	76		40-140
2-Fluorobiphenyl	82		40-140
2-Bromonaphthalene	84		40-140



Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 15-18,20-28 Batch: WG2014554-2 WG2014554-3								
C9-C18 Aliphatics	41		47		40-140	14		25
C19-C36 Aliphatics	57		73		40-140	25		25
C11-C22 Aromatics	61		81		40-140	28	Q	25
Naphthalene	56		73		40-140	26	Q	25
2-Methylnaphthalene	56		74		40-140	28	Q	25
Acenaphthylene	55		71		40-140	25		25
Acenaphthene	57		74		40-140	26	Q	25
Fluorene	58		75		40-140	26	Q	25
Phenanthrene	58		78		40-140	29	Q	25
Anthracene	67		89		40-140	28	Q	25
Fluoranthene	57		78		40-140	31	Q	25
Pyrene	58		80		40-140	32	Q	25
Benzo(a)anthracene	59		81		40-140	31	Q	25
Chrysene	58		80		40-140	32	Q	25
Benzo(b)fluoranthene	56		77		40-140	32	Q	25
Benzo(k)fluoranthene	56		77		40-140	32	Q	25
Benzo(a)pyrene	66		90		40-140	31	Q	25
Indeno(1,2,3-cd)Pyrene	57		77		40-140	30	Q	25
Dibenzo(a,h)anthracene	56		76		40-140	30	Q	25
Benzo(ghi)perylene	52		69		40-140	28	Q	25

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 15-18,20-28 Batch: WG2014554-2 WG2014554-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	43		56		40-140
o-Terphenyl	58		76		40-140
2-Fluorobiphenyl	64		85		40-140
2-Bromonaphthalene	64		85		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-14,19 Batch: WG2014644-2 WG2014644-3								
C9-C18 Aliphatics	58		59		40-140	2		25
C19-C36 Aliphatics	74		75		40-140	1		25
C11-C22 Aromatics	88		78		40-140	12		25
Naphthalene	70		62		40-140	12		25
2-Methylnaphthalene	73		64		40-140	13		25
Acenaphthylene	74		65		40-140	13		25
Acenaphthene	79		69		40-140	14		25
Fluorene	82		70		40-140	16		25
Phenanthrene	84		72		40-140	15		25
Anthracene	103		89		40-140	15		25
Fluoranthene	89		78		40-140	13		25
Pyrene	87		76		40-140	13		25
Benzo(a)anthracene	91		80		40-140	13		25
Chrysene	87		78		40-140	11		25
Benzo(b)fluoranthene	89		78		40-140	13		25
Benzo(k)fluoranthene	87		78		40-140	11		25
Benzo(a)pyrene	101		90		40-140	12		25
Indeno(1,2,3-cd)Pyrene	93		82		40-140	13		25
Dibenzo(a,h)anthracene	89		80		40-140	11		25
Benzo(ghi)perylene	82		74		40-140	10		25

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-14,19 Batch: WG2014644-2 WG2014644-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	62		60		40-140
o-Terphenyl	89		73		40-140
2-Fluorobiphenyl	76		75		40-140
2-Bromonaphthalene	80		78		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

PCBS

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

SAMPLE RESULTS

Lab ID: L2475966-01
Client ID: B-1 0-.5
Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:20
Date Received: 12/24/24
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 12/30/24 08:38
Analyst: MEO
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 12/29/24 05:59
Cleanup Method: EPA 3665A
Cleanup Date: 12/30/24
Cleanup Method: EPA 3660B
Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.5	--	1	A
Aroclor 1221	ND		ug/kg	57.5	--	1	A
Aroclor 1232	ND		ug/kg	57.5	--	1	A
Aroclor 1242	ND		ug/kg	57.5	--	1	A
Aroclor 1248	ND		ug/kg	57.5	--	1	A
Aroclor 1254	ND		ug/kg	57.5	--	1	A
Aroclor 1260	ND		ug/kg	57.5	--	1	A
Aroclor 1262	ND		ug/kg	57.5	--	1	A
Aroclor 1268	ND		ug/kg	57.5	--	1	A
PCBs, Total	ND		ug/kg	57.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

SAMPLE RESULTS

Lab ID: L2475966-02
Client ID: B-1 .5-5
Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:15
Date Received: 12/24/24
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 12/30/24 08:46
Analyst: MEO
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 12/29/24 05:59
Cleanup Method: EPA 3665A
Cleanup Date: 12/30/24
Cleanup Method: EPA 3660B
Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.6	--	1	A
Aroclor 1221	ND		ug/kg	55.6	--	1	A
Aroclor 1232	ND		ug/kg	55.6	--	1	A
Aroclor 1242	ND		ug/kg	55.6	--	1	A
Aroclor 1248	ND		ug/kg	55.6	--	1	A
Aroclor 1254	ND		ug/kg	55.6	--	1	A
Aroclor 1260	ND		ug/kg	55.6	--	1	B
Aroclor 1262	ND		ug/kg	55.6	--	1	A
Aroclor 1268	56.3		ug/kg	55.6	--	1	B
PCBs, Total	56.3		ug/kg	55.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	133		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	160	Q	30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-03
 Client ID: B-2 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:30
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/24 08:54
 Analyst: MEO
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 05:59
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.8	--	1	A
Aroclor 1221	ND		ug/kg	56.8	--	1	A
Aroclor 1232	ND		ug/kg	56.8	--	1	A
Aroclor 1242	ND		ug/kg	56.8	--	1	A
Aroclor 1248	ND		ug/kg	56.8	--	1	A
Aroclor 1254	ND		ug/kg	56.8	--	1	B
Aroclor 1260	ND		ug/kg	56.8	--	1	A
Aroclor 1262	ND		ug/kg	56.8	--	1	A
Aroclor 1268	ND		ug/kg	56.8	--	1	A
PCBs, Total	ND		ug/kg	56.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-04
 Client ID: B-2 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:40
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/24 09:02
 Analyst: MEO
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 05:59
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.2	--	1	A
Aroclor 1221	ND		ug/kg	55.2	--	1	A
Aroclor 1232	ND		ug/kg	55.2	--	1	A
Aroclor 1242	ND		ug/kg	55.2	--	1	A
Aroclor 1248	ND		ug/kg	55.2	--	1	A
Aroclor 1254	ND		ug/kg	55.2	--	1	A
Aroclor 1260	ND		ug/kg	55.2	--	1	B
Aroclor 1262	ND		ug/kg	55.2	--	1	A
Aroclor 1268	ND		ug/kg	55.2	--	1	A
PCBs, Total	ND		ug/kg	55.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	119		30-150	B



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-05
 Client ID: B-3 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:55
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/24 09:10
 Analyst: MEO
 Percent Solids: 65%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 06:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	74.7	--	1	A
Aroclor 1221	ND		ug/kg	74.7	--	1	A
Aroclor 1232	ND		ug/kg	74.7	--	1	A
Aroclor 1242	ND		ug/kg	74.7	--	1	A
Aroclor 1248	ND		ug/kg	74.7	--	1	A
Aroclor 1254	ND		ug/kg	74.7	--	1	A
Aroclor 1260	ND		ug/kg	74.7	--	1	A
Aroclor 1262	ND		ug/kg	74.7	--	1	A
Aroclor 1268	ND		ug/kg	74.7	--	1	A
PCBs, Total	ND		ug/kg	74.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-06 D
 Client ID: B-3 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 09:45
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/24 14:31
 Analyst: MEO
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 06:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	1220	--	20	A
Aroclor 1221	ND		ug/kg	1220	--	20	A
Aroclor 1232	ND		ug/kg	1220	--	20	A
Aroclor 1242	ND		ug/kg	1220	--	20	A
Aroclor 1248	ND		ug/kg	1220	--	20	A
Aroclor 1254	ND		ug/kg	1220	--	20	A
Aroclor 1260	1370		ug/kg	1220	--	20	B
Aroclor 1262	ND		ug/kg	1220	--	20	A
Aroclor 1268	2500		ug/kg	1220	--	20	B
PCBs, Total	3870		ug/kg	1220	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-07
 Client ID: B-4 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:00
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/24 09:26
 Analyst: MEO
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 06:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.9	--	1	A
Aroclor 1221	ND		ug/kg	51.9	--	1	A
Aroclor 1232	ND		ug/kg	51.9	--	1	A
Aroclor 1242	ND		ug/kg	51.9	--	1	A
Aroclor 1248	ND		ug/kg	51.9	--	1	A
Aroclor 1254	ND		ug/kg	51.9	--	1	A
Aroclor 1260	ND		ug/kg	51.9	--	1	A
Aroclor 1262	ND		ug/kg	51.9	--	1	A
Aroclor 1268	ND		ug/kg	51.9	--	1	A
PCBs, Total	ND		ug/kg	51.9	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-08
 Client ID: B-4 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:05
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/24 09:33
 Analyst: MEO
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 06:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	50.7	--	1	A
Aroclor 1221	ND		ug/kg	50.7	--	1	A
Aroclor 1232	ND		ug/kg	50.7	--	1	A
Aroclor 1242	ND		ug/kg	50.7	--	1	A
Aroclor 1248	ND		ug/kg	50.7	--	1	A
Aroclor 1254	ND		ug/kg	50.7	--	1	A
Aroclor 1260	ND		ug/kg	50.7	--	1	A
Aroclor 1262	ND		ug/kg	50.7	--	1	A
Aroclor 1268	ND		ug/kg	50.7	--	1	B
PCBs, Total	ND		ug/kg	50.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-09
 Client ID: B-5 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:15
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/24 09:41
 Analyst: MEO
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 06:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	69.5	--	1	A
Aroclor 1221	ND		ug/kg	69.5	--	1	A
Aroclor 1232	ND		ug/kg	69.5	--	1	A
Aroclor 1242	ND		ug/kg	69.5	--	1	A
Aroclor 1248	ND		ug/kg	69.5	--	1	A
Aroclor 1254	ND		ug/kg	69.5	--	1	A
Aroclor 1260	ND		ug/kg	69.5	--	1	A
Aroclor 1262	ND		ug/kg	69.5	--	1	A
Aroclor 1268	ND		ug/kg	69.5	--	1	A
PCBs, Total	ND		ug/kg	69.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	61		30-150	B



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-10
 Client ID: B-5 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:25
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/24 09:49
 Analyst: MEO
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 06:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	52.7	--	1	A
Aroclor 1221	ND		ug/kg	52.7	--	1	A
Aroclor 1232	ND		ug/kg	52.7	--	1	A
Aroclor 1242	ND		ug/kg	52.7	--	1	A
Aroclor 1248	ND		ug/kg	52.7	--	1	A
Aroclor 1254	ND		ug/kg	52.7	--	1	A
Aroclor 1260	ND		ug/kg	52.7	--	1	A
Aroclor 1262	ND		ug/kg	52.7	--	1	A
Aroclor 1268	ND		ug/kg	52.7	--	1	A
PCBs, Total	ND		ug/kg	52.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	68		30-150	B



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-11
 Client ID: B-6 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:30
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/24 09:57
 Analyst: MEO
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 06:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	64.5	--	1	A
Aroclor 1221	ND		ug/kg	64.5	--	1	A
Aroclor 1232	ND		ug/kg	64.5	--	1	A
Aroclor 1242	ND		ug/kg	64.5	--	1	A
Aroclor 1248	ND		ug/kg	64.5	--	1	A
Aroclor 1254	ND		ug/kg	64.5	--	1	A
Aroclor 1260	ND		ug/kg	64.5	--	1	A
Aroclor 1262	ND		ug/kg	64.5	--	1	A
Aroclor 1268	ND		ug/kg	64.5	--	1	A
PCBs, Total	ND		ug/kg	64.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-12
 Client ID: B-6 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 10:40
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/30/24 10:05
 Analyst: MEO
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 06:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.0	--	1	A
Aroclor 1221	ND		ug/kg	54.0	--	1	A
Aroclor 1232	ND		ug/kg	54.0	--	1	A
Aroclor 1242	ND		ug/kg	54.0	--	1	A
Aroclor 1248	ND		ug/kg	54.0	--	1	A
Aroclor 1254	ND		ug/kg	54.0	--	1	A
Aroclor 1260	ND		ug/kg	54.0	--	1	B
Aroclor 1262	ND		ug/kg	54.0	--	1	A
Aroclor 1268	ND		ug/kg	54.0	--	1	A
PCBs, Total	ND		ug/kg	54.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-13
 Client ID: B-7 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:00
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 15:44
 Analyst: AD
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:35
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	60.1	--	1	A
Aroclor 1221	ND		ug/kg	60.1	--	1	A
Aroclor 1232	ND		ug/kg	60.1	--	1	A
Aroclor 1242	ND		ug/kg	60.1	--	1	A
Aroclor 1248	ND		ug/kg	60.1	--	1	A
Aroclor 1254	ND		ug/kg	60.1	--	1	A
Aroclor 1260	ND		ug/kg	60.1	--	1	A
Aroclor 1262	ND		ug/kg	60.1	--	1	A
Aroclor 1268	ND		ug/kg	60.1	--	1	A
PCBs, Total	ND		ug/kg	60.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-14
 Client ID: B-7 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:10
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 15:54
 Analyst: AD
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:35
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	60.6	--	1	A
Aroclor 1221	ND		ug/kg	60.6	--	1	A
Aroclor 1232	ND		ug/kg	60.6	--	1	A
Aroclor 1242	ND		ug/kg	60.6	--	1	A
Aroclor 1248	ND		ug/kg	60.6	--	1	A
Aroclor 1254	ND		ug/kg	60.6	--	1	A
Aroclor 1260	ND		ug/kg	60.6	--	1	B
Aroclor 1262	ND		ug/kg	60.6	--	1	A
Aroclor 1268	ND		ug/kg	60.6	--	1	A
PCBs, Total	ND		ug/kg	60.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	51		30-150	B



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-15
 Client ID: B-8 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:20
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 16:04
 Analyst: AD
 Percent Solids: 70%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:35
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	70.7	--	1	A
Aroclor 1221	ND		ug/kg	70.7	--	1	A
Aroclor 1232	ND		ug/kg	70.7	--	1	A
Aroclor 1242	ND		ug/kg	70.7	--	1	A
Aroclor 1248	ND		ug/kg	70.7	--	1	A
Aroclor 1254	ND		ug/kg	70.7	--	1	A
Aroclor 1260	ND		ug/kg	70.7	--	1	B
Aroclor 1262	ND		ug/kg	70.7	--	1	A
Aroclor 1268	ND		ug/kg	70.7	--	1	A
PCBs, Total	ND		ug/kg	70.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-16
 Client ID: B-8 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:30
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 16:13
 Analyst: AD
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:35
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.8	--	1	A
Aroclor 1221	ND		ug/kg	56.8	--	1	A
Aroclor 1232	ND		ug/kg	56.8	--	1	A
Aroclor 1242	ND		ug/kg	56.8	--	1	A
Aroclor 1248	ND		ug/kg	56.8	--	1	A
Aroclor 1254	ND		ug/kg	56.8	--	1	B
Aroclor 1260	ND		ug/kg	56.8	--	1	B
Aroclor 1262	ND		ug/kg	56.8	--	1	A
Aroclor 1268	ND		ug/kg	56.8	--	1	A
PCBs, Total	ND		ug/kg	56.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-17
 Client ID: B-9 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:40
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 16:24
 Analyst: AD
 Percent Solids: 51%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:35
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	92.0	--	1	A
Aroclor 1221	ND		ug/kg	92.0	--	1	A
Aroclor 1232	ND		ug/kg	92.0	--	1	A
Aroclor 1242	ND		ug/kg	92.0	--	1	A
Aroclor 1248	ND		ug/kg	92.0	--	1	A
Aroclor 1254	ND		ug/kg	92.0	--	1	B
Aroclor 1260	ND		ug/kg	92.0	--	1	B
Aroclor 1262	ND		ug/kg	92.0	--	1	A
Aroclor 1268	ND		ug/kg	92.0	--	1	A
PCBs, Total	ND		ug/kg	92.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-18
 Client ID: B-9 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 11:50
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 16:34
 Analyst: AD
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:35
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	50.7	--	1	A
Aroclor 1221	ND		ug/kg	50.7	--	1	A
Aroclor 1232	ND		ug/kg	50.7	--	1	A
Aroclor 1242	ND		ug/kg	50.7	--	1	A
Aroclor 1248	ND		ug/kg	50.7	--	1	A
Aroclor 1254	ND		ug/kg	50.7	--	1	B
Aroclor 1260	ND		ug/kg	50.7	--	1	A
Aroclor 1262	ND		ug/kg	50.7	--	1	A
Aroclor 1268	ND		ug/kg	50.7	--	1	A
PCBs, Total	ND		ug/kg	50.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

SAMPLE RESULTS

Lab ID: L2475966-19
Client ID: B-10 0-.5
Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:00
Date Received: 12/24/24
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 12/31/24 16:44
Analyst: AD
Percent Solids: 67%

Extraction Method: EPA 3546
Extraction Date: 12/30/24 16:35
Cleanup Method: EPA 3665A
Cleanup Date: 12/31/24
Cleanup Method: EPA 3660B
Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	72.1	--	1	A
Aroclor 1221	ND		ug/kg	72.1	--	1	A
Aroclor 1232	ND		ug/kg	72.1	--	1	A
Aroclor 1242	ND		ug/kg	72.1	--	1	A
Aroclor 1248	ND		ug/kg	72.1	--	1	A
Aroclor 1254	ND		ug/kg	72.1	--	1	B
Aroclor 1260	ND		ug/kg	72.1	--	1	A
Aroclor 1262	ND		ug/kg	72.1	--	1	A
Aroclor 1268	ND		ug/kg	72.1	--	1	A
PCBs, Total	ND		ug/kg	72.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

SAMPLE RESULTS

Lab ID: L2475966-20
Client ID: B-10 .5-5
Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:10
Date Received: 12/24/24
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 12/31/24 16:54
Analyst: AD
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 12/30/24 16:35
Cleanup Method: EPA 3665A
Cleanup Date: 12/31/24
Cleanup Method: EPA 3660B
Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.6	--	1	A
Aroclor 1221	ND		ug/kg	56.6	--	1	A
Aroclor 1232	ND		ug/kg	56.6	--	1	A
Aroclor 1242	ND		ug/kg	56.6	--	1	A
Aroclor 1248	ND		ug/kg	56.6	--	1	A
Aroclor 1254	ND		ug/kg	56.6	--	1	A
Aroclor 1260	ND		ug/kg	56.6	--	1	A
Aroclor 1262	ND		ug/kg	56.6	--	1	A
Aroclor 1268	ND		ug/kg	56.6	--	1	A
PCBs, Total	ND		ug/kg	56.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-21
 Client ID: B-11 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:20
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 17:04
 Analyst: AD
 Percent Solids: 56%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:41
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	84.6	--	1	A
Aroclor 1221	ND		ug/kg	84.6	--	1	A
Aroclor 1232	ND		ug/kg	84.6	--	1	A
Aroclor 1242	ND		ug/kg	84.6	--	1	A
Aroclor 1248	ND		ug/kg	84.6	--	1	A
Aroclor 1254	ND		ug/kg	84.6	--	1	B
Aroclor 1260	ND		ug/kg	84.6	--	1	B
Aroclor 1262	ND		ug/kg	84.6	--	1	A
Aroclor 1268	ND		ug/kg	84.6	--	1	A
PCBs, Total	ND		ug/kg	84.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-22
 Client ID: B-11 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:30
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 17:14
 Analyst: AD
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:41
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	62.8	--	1	A
Aroclor 1221	ND		ug/kg	62.8	--	1	A
Aroclor 1232	ND		ug/kg	62.8	--	1	A
Aroclor 1242	ND		ug/kg	62.8	--	1	A
Aroclor 1248	ND		ug/kg	62.8	--	1	A
Aroclor 1254	ND		ug/kg	62.8	--	1	A
Aroclor 1260	ND		ug/kg	62.8	--	1	A
Aroclor 1262	ND		ug/kg	62.8	--	1	A
Aroclor 1268	ND		ug/kg	62.8	--	1	A
PCBs, Total	ND		ug/kg	62.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-23
 Client ID: B-12 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:40
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 17:24
 Analyst: AD
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:41
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	62.8	--	1	A
Aroclor 1221	ND		ug/kg	62.8	--	1	A
Aroclor 1232	ND		ug/kg	62.8	--	1	A
Aroclor 1242	ND		ug/kg	62.8	--	1	A
Aroclor 1248	ND		ug/kg	62.8	--	1	A
Aroclor 1254	122		ug/kg	62.8	--	1	B
Aroclor 1260	ND		ug/kg	62.8	--	1	A
Aroclor 1262	ND		ug/kg	62.8	--	1	A
Aroclor 1268	ND		ug/kg	62.8	--	1	A
PCBs, Total	122		ug/kg	62.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	49		30-150	B



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-24
 Client ID: B-12 .5-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 12:50
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 17:34
 Analyst: AD
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:41
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.8	--	1	A
Aroclor 1221	ND		ug/kg	56.8	--	1	A
Aroclor 1232	ND		ug/kg	56.8	--	1	A
Aroclor 1242	ND		ug/kg	56.8	--	1	A
Aroclor 1248	ND		ug/kg	56.8	--	1	A
Aroclor 1254	560		ug/kg	56.8	--	1	A
Aroclor 1260	ND		ug/kg	56.8	--	1	A
Aroclor 1262	ND		ug/kg	56.8	--	1	A
Aroclor 1268	ND		ug/kg	56.8	--	1	A
PCBs, Total	560		ug/kg	56.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-25
 Client ID: B-13 0-.5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 13:00
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 17:44
 Analyst: AD
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:41
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.0	--	1	A
Aroclor 1221	ND		ug/kg	57.0	--	1	A
Aroclor 1232	ND		ug/kg	57.0	--	1	A
Aroclor 1242	ND		ug/kg	57.0	--	1	A
Aroclor 1248	ND		ug/kg	57.0	--	1	A
Aroclor 1254	ND		ug/kg	57.0	--	1	A
Aroclor 1260	ND		ug/kg	57.0	--	1	A
Aroclor 1262	ND		ug/kg	57.0	--	1	A
Aroclor 1268	ND		ug/kg	57.0	--	1	A
PCBs, Total	ND		ug/kg	57.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-26
 Client ID: B-13 3-5
 Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 13:10
 Date Received: 12/24/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 12/31/24 17:54
 Analyst: AD
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:41
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	65.2	--	1	A
Aroclor 1221	ND		ug/kg	65.2	--	1	A
Aroclor 1232	ND		ug/kg	65.2	--	1	A
Aroclor 1242	ND		ug/kg	65.2	--	1	A
Aroclor 1248	ND		ug/kg	65.2	--	1	A
Aroclor 1254	ND		ug/kg	65.2	--	1	B
Aroclor 1260	ND		ug/kg	65.2	--	1	A
Aroclor 1262	ND		ug/kg	65.2	--	1	A
Aroclor 1268	ND		ug/kg	65.2	--	1	A
PCBs, Total	ND		ug/kg	65.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	58		30-150	B



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

SAMPLE RESULTS

Lab ID: L2475966-27
Client ID: B-14 0-.5
Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 13:20
Date Received: 12/24/24
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 12/31/24 18:04
Analyst: AD
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 12/30/24 16:41
Cleanup Method: EPA 3665A
Cleanup Date: 12/31/24
Cleanup Method: EPA 3660B
Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.7	--	1	A
Aroclor 1221	ND		ug/kg	56.7	--	1	A
Aroclor 1232	ND		ug/kg	56.7	--	1	A
Aroclor 1242	ND		ug/kg	56.7	--	1	A
Aroclor 1248	ND		ug/kg	56.7	--	1	A
Aroclor 1254	ND		ug/kg	56.7	--	1	A
Aroclor 1260	ND		ug/kg	56.7	--	1	A
Aroclor 1262	ND		ug/kg	56.7	--	1	A
Aroclor 1268	ND		ug/kg	56.7	--	1	A
PCBs, Total	ND		ug/kg	56.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	50		30-150	B



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

SAMPLE RESULTS

Lab ID: L2475966-28
Client ID: B-14 2-4
Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Date Collected: 12/20/24 13:30
Date Received: 12/24/24
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 12/31/24 18:14
Analyst: AD
Percent Solids: 68%

Extraction Method: EPA 3546
Extraction Date: 12/30/24 16:41
Cleanup Method: EPA 3665A
Cleanup Date: 12/31/24
Cleanup Method: EPA 3660B
Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	72.6	--	1	A
Aroclor 1221	ND		ug/kg	72.6	--	1	A
Aroclor 1232	ND		ug/kg	72.6	--	1	A
Aroclor 1242	ND		ug/kg	72.6	--	1	A
Aroclor 1248	ND		ug/kg	72.6	--	1	A
Aroclor 1254	ND		ug/kg	72.6	--	1	A
Aroclor 1260	ND		ug/kg	72.6	--	1	A
Aroclor 1262	ND		ug/kg	72.6	--	1	A
Aroclor 1268	ND		ug/kg	72.6	--	1	A
PCBs, Total	ND		ug/kg	72.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	37		30-150	B



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 12/30/24 07:12
 Analyst: MEO

Extraction Method: EPA 3546
 Extraction Date: 12/29/24 05:59
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/30/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-12 Batch: WG2014495-1						
Aroclor 1016	ND		ug/kg	48.7	--	A
Aroclor 1221	ND		ug/kg	48.7	--	A
Aroclor 1232	ND		ug/kg	48.7	--	A
Aroclor 1242	ND		ug/kg	48.7	--	A
Aroclor 1248	ND		ug/kg	48.7	--	A
Aroclor 1254	ND		ug/kg	48.7	--	A
Aroclor 1260	ND		ug/kg	48.7	--	A
Aroclor 1262	ND		ug/kg	48.7	--	A
Aroclor 1268	ND		ug/kg	48.7	--	A
PCBs, Total	ND		ug/kg	48.7	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 12/31/24 14:33
 Analyst: AD

Extraction Method: EPA 3546
 Extraction Date: 12/30/24 16:35
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/31/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/31/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 13-28 Batch: WG2014970-1						
Aroclor 1016	ND		ug/kg	48.5	--	A
Aroclor 1221	ND		ug/kg	48.5	--	A
Aroclor 1232	ND		ug/kg	48.5	--	A
Aroclor 1242	ND		ug/kg	48.5	--	A
Aroclor 1248	ND		ug/kg	48.5	--	A
Aroclor 1254	ND		ug/kg	48.5	--	A
Aroclor 1262	ND		ug/kg	48.5	--	A
Aroclor 1268	ND		ug/kg	48.5	--	A
Aroclor 1260	ND		ug/kg	48.5	--	B
PCBs, Total	ND		ug/kg	48.5	--	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	70		30-150	B



Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-12 Batch: WG2014495-2 WG2014495-3									
Aroclor 1016	87		93		40-140	7		30	A
Aroclor 1260	80		87		40-140	8		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		75		30-150	A
Decachlorobiphenyl	70		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		80		30-150	B
Decachlorobiphenyl	67		74		30-150	B

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 13-28 Batch: WG2014970-2 WG2014970-3									
Aroclor 1016	86		87		40-140	1		30	A
Aroclor 1260	92		93		40-140	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		82		30-150	A
Decachlorobiphenyl	96		94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		80		30-150	B
Decachlorobiphenyl	66		67		30-150	B

METALS

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-01

Date Collected: 12/20/24 09:20

Client ID: B-1 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.77	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Arsenic, Total	3.99		mg/kg	0.954	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Barium, Total	95.7		mg/kg	0.954	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.477	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	0.954	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Chromium, Total	17.6		mg/kg	0.954	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Lead, Total	190		mg/kg	4.77	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Mercury, Total	0.164		mg/kg	0.079	--	1	01/02/25 17:22	01/02/25 19:11	EPA 7471B	97,7471B	JWN
Nickel, Total	8.28		mg/kg	2.38	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	4.77	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	0.954	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	4.77	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Vanadium, Total	11.9		mg/kg	0.954	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC
Zinc, Total	228		mg/kg	4.77	--	2	01/02/25 15:10	01/02/25 17:51	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-02

Date Collected: 12/20/24 09:15

Client ID: B-1 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	8.35		mg/kg	4.41	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Arsenic, Total	5.45		mg/kg	0.882	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Barium, Total	143		mg/kg	0.882	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.441	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Cadmium, Total	1.10		mg/kg	0.882	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Chromium, Total	36.1		mg/kg	0.882	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Lead, Total	225		mg/kg	4.41	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Mercury, Total	1.15		mg/kg	0.076	--	1	01/02/25 17:22	01/02/25 19:14	EPA 7471B	97,7471B	JWN
Nickel, Total	11.3		mg/kg	2.21	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	4.41	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Silver, Total	3.72		mg/kg	0.882	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	4.41	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Vanadium, Total	8.92		mg/kg	0.882	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC
Zinc, Total	325		mg/kg	4.41	--	2	01/02/25 15:10	01/02/25 17:56	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-03

Date Collected: 12/20/24 09:30

Client ID: B-2 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.74	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Arsenic, Total	ND		mg/kg	0.948	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Barium, Total	51.0		mg/kg	0.948	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.474	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	0.948	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Chromium, Total	31.7		mg/kg	0.948	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Lead, Total	7.53		mg/kg	4.74	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Mercury, Total	ND		mg/kg	0.084	--	1	01/02/25 17:22	01/02/25 19:24	EPA 7471B	97,7471B	JWN
Nickel, Total	14.1		mg/kg	2.37	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	4.74	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	0.948	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	4.74	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Vanadium, Total	15.3		mg/kg	0.948	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC
Zinc, Total	41.4		mg/kg	4.74	--	2	01/02/25 15:10	01/02/25 18:01	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-04

Date Collected: 12/20/24 09:40

Client ID: B-2 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.48	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Arsenic, Total	9.23		mg/kg	0.896	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Barium, Total	259		mg/kg	0.896	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.448	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Cadmium, Total	2.14		mg/kg	0.896	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Chromium, Total	23.6		mg/kg	0.896	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Lead, Total	408		mg/kg	4.48	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Mercury, Total	0.158		mg/kg	0.076	--	1	01/02/25 17:22	01/02/25 19:28	EPA 7471B	97,7471B	JWN
Nickel, Total	19.5		mg/kg	2.24	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	4.48	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	0.896	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	4.48	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Vanadium, Total	13.8		mg/kg	0.896	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC
Zinc, Total	732		mg/kg	4.48	--	2	01/02/25 15:10	01/02/25 18:06	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-05

Date Collected: 12/20/24 09:55

Client ID: B-3 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	6.03	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Arsenic, Total	2.40		mg/kg	1.21	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Barium, Total	65.4		mg/kg	1.21	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.603	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	1.21	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Chromium, Total	26.4		mg/kg	1.21	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Lead, Total	65.3		mg/kg	6.03	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Mercury, Total	ND		mg/kg	0.114	--	1	01/02/25 17:22	01/02/25 23:36	EPA 7471B	97,7471B	JWN
Nickel, Total	12.0		mg/kg	3.02	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	6.03	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	1.21	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	6.03	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Vanadium, Total	16.1		mg/kg	1.21	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC
Zinc, Total	93.7		mg/kg	6.03	--	2	01/02/25 15:10	01/02/25 18:12	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-06

Date Collected: 12/20/24 09:45

Client ID: B-3 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	50.8	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Arsenic, Total	28.8		mg/kg	10.2	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Barium, Total	603		mg/kg	10.2	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	5.08	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	10.2	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Chromium, Total	87.9		mg/kg	10.2	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Lead, Total	1710		mg/kg	50.8	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Mercury, Total	0.145		mg/kg	0.088	--	1	01/02/25 17:22	01/02/25 23:40	EPA 7471B	97,7471B	JWN
Nickel, Total	148		mg/kg	25.4	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	50.8	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	10.2	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	50.8	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Vanadium, Total	14.1		mg/kg	10.2	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC
Zinc, Total	17200		mg/kg	50.8	--	20	01/02/25 15:10	01/02/25 20:00	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-07

Date Collected: 12/20/24 10:00

Client ID: B-4 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.26	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Arsenic, Total	ND		mg/kg	0.853	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Barium, Total	68.2		mg/kg	0.853	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.426	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	0.853	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Chromium, Total	41.3		mg/kg	0.853	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Lead, Total	ND		mg/kg	4.26	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Mercury, Total	ND		mg/kg	0.072	--	1	01/02/25 17:22	01/02/25 23:50	EPA 7471B	97,7471B	JWN
Nickel, Total	18.0		mg/kg	2.13	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	4.26	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	0.853	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	4.26	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Vanadium, Total	19.3		mg/kg	0.853	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC
Zinc, Total	26.7		mg/kg	4.26	--	2	01/02/25 15:10	01/02/25 18:22	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-08

Date Collected: 12/20/24 10:05

Client ID: B-4 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	5.02		mg/kg	4.18	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Arsenic, Total	8.98		mg/kg	0.836	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Barium, Total	168		mg/kg	0.836	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.418	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Cadmium, Total	2.37		mg/kg	0.836	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Chromium, Total	16.0		mg/kg	0.836	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Lead, Total	370		mg/kg	4.18	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Mercury, Total	0.232		mg/kg	0.074	--	1	01/02/25 17:22	01/02/25 23:53	EPA 7471B	97,7471B	JWN
Nickel, Total	40.7		mg/kg	2.09	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	4.18	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	0.836	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	4.18	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Vanadium, Total	8.93		mg/kg	0.836	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC
Zinc, Total	867		mg/kg	4.18	--	2	01/02/25 15:10	01/02/25 18:27	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-09

Date Collected: 12/20/24 10:15

Client ID: B-5 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	5.86	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Arsenic, Total	1.20		mg/kg	1.17	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Barium, Total	18.7		mg/kg	1.17	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.586	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	1.17	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Chromium, Total	15.1		mg/kg	1.17	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Lead, Total	7.34		mg/kg	5.86	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Mercury, Total	ND		mg/kg	0.106	--	1	01/02/25 17:22	01/02/25 23:56	EPA 7471B	97,7471B	JWN
Nickel, Total	7.26		mg/kg	2.93	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	5.86	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	1.17	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	5.86	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Vanadium, Total	8.53		mg/kg	1.17	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC
Zinc, Total	20.2		mg/kg	5.86	--	2	01/02/25 15:10	01/02/25 19:19	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-10

Date Collected: 12/20/24 10:25

Client ID: B-5 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.37	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Arsenic, Total	1.65		mg/kg	0.874	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Barium, Total	14.0		mg/kg	0.874	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.437	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	0.874	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Chromium, Total	6.16		mg/kg	0.874	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Lead, Total	13.8		mg/kg	4.37	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Mercury, Total	ND		mg/kg	0.077	--	1	01/02/25 17:22	01/03/25 00:00	EPA 7471B	97,7471B	JWN
Nickel, Total	3.14		mg/kg	2.18	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	4.37	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	0.874	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	4.37	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Vanadium, Total	7.98		mg/kg	0.874	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC
Zinc, Total	19.5		mg/kg	4.37	--	2	01/02/25 15:10	01/02/25 19:24	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-11

Date Collected: 12/20/24 10:30

Client ID: B-6 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.86	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Arsenic, Total	6.01		mg/kg	0.973	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Barium, Total	81.8		mg/kg	0.973	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.486	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Cadmium, Total	2.36		mg/kg	0.973	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Chromium, Total	15.7		mg/kg	0.973	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Lead, Total	330		mg/kg	4.86	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Mercury, Total	0.418		mg/kg	0.096	--	1	01/02/25 17:22	01/03/25 00:03	EPA 7471B	97,7471B	JWN
Nickel, Total	10.2		mg/kg	2.43	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	4.86	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	0.973	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	4.86	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Vanadium, Total	12.3		mg/kg	0.973	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC
Zinc, Total	279		mg/kg	4.86	--	2	01/02/25 15:10	01/02/25 19:29	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-12

Date Collected: 12/20/24 10:40

Client ID: B-6 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	13.7		mg/kg	8.89	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Arsenic, Total	25.8		mg/kg	1.78	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Barium, Total	482		mg/kg	1.78	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.889	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Cadmium, Total	5.67		mg/kg	1.78	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Chromium, Total	32.0		mg/kg	1.78	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Lead, Total	1220		mg/kg	8.89	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Mercury, Total	0.646		mg/kg	0.092	--	1	01/02/25 17:22	01/03/25 00:06	EPA 7471B	97,7471B	JWN
Nickel, Total	37.2		mg/kg	4.44	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	8.89	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	1.78	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	8.89	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Vanadium, Total	7.75		mg/kg	1.78	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC
Zinc, Total	919		mg/kg	8.89	--	4	01/02/25 15:10	01/02/25 20:58	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-13

Date Collected: 12/20/24 11:00

Client ID: B-7 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.71	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Arsenic, Total	ND		mg/kg	0.941	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Barium, Total	91.6		mg/kg	0.941	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.471	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	0.941	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Chromium, Total	54.3		mg/kg	0.941	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Lead, Total	12.3		mg/kg	4.71	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Mercury, Total	ND		mg/kg	0.081	--	1	01/02/25 17:22	01/03/25 00:09	EPA 7471B	97,7471B	JWN
Nickel, Total	24.2		mg/kg	2.35	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	4.71	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	0.941	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	4.71	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Vanadium, Total	22.5		mg/kg	0.941	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC
Zinc, Total	40.6		mg/kg	4.71	--	2	01/02/25 15:10	01/02/25 19:40	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-14

Date Collected: 12/20/24 11:10

Client ID: B-7 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.58	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Arsenic, Total	2.91		mg/kg	0.917	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Barium, Total	51.2		mg/kg	0.917	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.458	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	0.917	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Chromium, Total	6.40		mg/kg	0.917	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Lead, Total	99.4		mg/kg	4.58	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Mercury, Total	0.133		mg/kg	0.086	--	1	01/02/25 17:22	01/03/25 00:13	EPA 7471B	97,7471B	JWN
Nickel, Total	5.17		mg/kg	2.29	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	4.58	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	0.917	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	4.58	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Vanadium, Total	7.35		mg/kg	0.917	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC
Zinc, Total	96.4		mg/kg	4.58	--	2	01/02/25 15:10	01/02/25 19:45	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-15

Date Collected: 12/20/24 11:20

Client ID: B-8 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	5.68	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Arsenic, Total	2.92		mg/kg	1.14	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Barium, Total	39.9		mg/kg	1.14	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.568	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	1.14	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Chromium, Total	12.2		mg/kg	1.14	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Lead, Total	45.2		mg/kg	5.68	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Mercury, Total	ND		mg/kg	0.098	--	1	01/02/25 17:22	01/03/25 00:16	EPA 7471B	97,7471B	JWN
Nickel, Total	7.16		mg/kg	2.84	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	5.68	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	1.14	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	5.68	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Vanadium, Total	11.3		mg/kg	1.14	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC
Zinc, Total	79.5		mg/kg	5.68	--	2	01/02/25 15:10	01/02/25 19:50	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-16

Date Collected: 12/20/24 11:30

Client ID: B-8 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	14.1		mg/kg	9.09	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Arsenic, Total	35.4		mg/kg	1.82	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Barium, Total	359		mg/kg	1.82	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.909	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Cadmium, Total	3.37		mg/kg	1.82	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Chromium, Total	30.6		mg/kg	1.82	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Lead, Total	746		mg/kg	9.09	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Mercury, Total	1.34		mg/kg	0.089	--	1	01/02/25 17:22	01/03/25 00:19	EPA 7471B	97,7471B	JWN
Nickel, Total	30.1		mg/kg	4.55	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	9.09	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	1.82	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	9.09	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Vanadium, Total	9.71		mg/kg	1.82	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC
Zinc, Total	1150		mg/kg	9.09	--	4	01/02/25 15:10	01/02/25 21:03	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-17

Date Collected: 12/20/24 11:40

Client ID: B-9 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 51%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	7.63	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Arsenic, Total	3.22		mg/kg	1.53	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Barium, Total	21.8		mg/kg	1.53	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Beryllium, Total	ND		mg/kg	0.763	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Cadmium, Total	ND		mg/kg	1.53	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Chromium, Total	13.8		mg/kg	1.53	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Lead, Total	41.8		mg/kg	7.63	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Mercury, Total	ND		mg/kg	0.131	--	1	01/02/25 17:22	01/03/25 00:29	EPA 7471B	97,7471B	JWN
Nickel, Total	5.41		mg/kg	3.82	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Selenium, Total	ND		mg/kg	7.63	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Silver, Total	ND		mg/kg	1.53	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Thallium, Total	ND		mg/kg	7.63	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Vanadium, Total	12.3		mg/kg	1.53	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC
Zinc, Total	26.5		mg/kg	7.63	--	2	01/02/25 15:10	01/02/25 20:52	EPA 3050B	97,6010D	DMC



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-18

Date Collected: 12/20/24 11:50

Client ID: B-9 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.17	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Arsenic, Total	1.96		mg/kg	0.835	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Barium, Total	7.34		mg/kg	0.835	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.417	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.835	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Chromium, Total	3.94		mg/kg	0.835	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Lead, Total	4.59		mg/kg	4.17	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Mercury, Total	ND		mg/kg	0.079	--	1	01/03/25 15:29	01/04/25 12:53	EPA 7471B	97,7471B	DJR
Nickel, Total	2.44		mg/kg	2.09	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.17	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.835	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.17	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Vanadium, Total	8.26		mg/kg	0.835	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM
Zinc, Total	9.62		mg/kg	4.17	--	2	01/03/25 14:36	01/03/25 17:51	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-19

Date Collected: 12/20/24 12:00

Client ID: B-10 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	5.85	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Arsenic, Total	6.94		mg/kg	1.17	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Barium, Total	90.7		mg/kg	1.17	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.585	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	1.17	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Chromium, Total	21.0		mg/kg	1.17	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Lead, Total	320		mg/kg	5.85	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Mercury, Total	0.464		mg/kg	0.095	--	1	01/03/25 15:29	01/04/25 12:57	EPA 7471B	97,7471B	DJR
Nickel, Total	10.5		mg/kg	2.92	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	5.85	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	1.17	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	5.85	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Vanadium, Total	13.5		mg/kg	1.17	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM
Zinc, Total	304		mg/kg	5.85	--	2	01/03/25 14:36	01/03/25 17:55	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-20

Date Collected: 12/20/24 12:10

Client ID: B-10 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	5.11		mg/kg	4.70	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Arsenic, Total	4.77		mg/kg	0.940	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Barium, Total	139		mg/kg	0.940	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.470	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.940	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Chromium, Total	8.83		mg/kg	0.940	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Lead, Total	290		mg/kg	4.70	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Mercury, Total	0.473		mg/kg	0.090	--	1	01/03/25 15:29	01/04/25 13:17	EPA 7471B	97,7471B	DJR
Nickel, Total	17.3		mg/kg	2.35	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.70	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.940	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.70	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Vanadium, Total	8.62		mg/kg	0.940	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM
Zinc, Total	175		mg/kg	4.70	--	2	01/03/25 14:36	01/03/25 17:58	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-21

Date Collected: 12/20/24 12:20

Client ID: B-11 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 56%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	6.87	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Arsenic, Total	16.7		mg/kg	1.37	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Barium, Total	169		mg/kg	1.37	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.687	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Cadmium, Total	1.53		mg/kg	1.37	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Chromium, Total	20.4		mg/kg	1.37	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Lead, Total	601		mg/kg	6.87	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Mercury, Total	0.615		mg/kg	0.120	--	1	01/03/25 15:29	01/04/25 13:20	EPA 7471B	97,7471B	DJR
Nickel, Total	13.7		mg/kg	3.44	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	6.87	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	1.37	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	6.87	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Vanadium, Total	17.1		mg/kg	1.37	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM
Zinc, Total	493		mg/kg	6.87	--	2	01/03/25 14:36	01/03/25 18:02	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-22

Date Collected: 12/20/24 12:30

Client ID: B-11 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	2660		mg/kg	50.4	--	20	01/03/25 14:36	01/03/25 18:23	EPA 3050B	97,6010D	EFM
Arsenic, Total	11.8		mg/kg	1.01	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Barium, Total	302		mg/kg	1.01	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.504	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Cadmium, Total	6.44		mg/kg	1.01	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Chromium, Total	22.5		mg/kg	1.01	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Lead, Total	1120		mg/kg	5.04	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Mercury, Total	0.463		mg/kg	0.089	--	1	01/03/25 15:29	01/04/25 13:23	EPA 7471B	97,7471B	DJR
Nickel, Total	7.28		mg/kg	2.52	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	5.04	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	1.01	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	5.04	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Vanadium, Total	13.5		mg/kg	1.01	--	2	01/03/25 14:36	01/03/25 18:05	EPA 3050B	97,6010D	EFM
Zinc, Total	4150		mg/kg	50.4	--	20	01/03/25 14:36	01/03/25 18:23	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-23

Date Collected: 12/20/24 12:40

Client ID: B-12 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	12.4		mg/kg	5.16	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Arsenic, Total	5.66		mg/kg	1.03	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Barium, Total	55.9		mg/kg	1.03	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.516	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	1.03	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Chromium, Total	13.2		mg/kg	1.03	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Lead, Total	190		mg/kg	5.16	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Mercury, Total	0.195		mg/kg	0.093	--	1	01/03/25 15:29	01/04/25 13:27	EPA 7471B	97,7471B	DJR
Nickel, Total	4.94		mg/kg	2.58	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	5.16	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	1.03	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	5.16	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Vanadium, Total	13.1		mg/kg	1.03	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM
Zinc, Total	128		mg/kg	5.16	--	2	01/03/25 14:36	01/03/25 18:09	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-24

Date Collected: 12/20/24 12:50

Client ID: B-12 .5-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	7.97		mg/kg	4.76	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Arsenic, Total	27.3		mg/kg	0.952	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Barium, Total	511		mg/kg	0.952	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.476	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Cadmium, Total	4.17		mg/kg	0.952	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Chromium, Total	29.7		mg/kg	0.952	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Lead, Total	1610		mg/kg	4.76	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Mercury, Total	0.829		mg/kg	0.079	--	1	01/03/25 15:29	01/04/25 13:30	EPA 7471B	97,7471B	DJR
Nickel, Total	23.1		mg/kg	2.38	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.76	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Silver, Total	1.42		mg/kg	0.952	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.76	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Vanadium, Total	14.4		mg/kg	0.952	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM
Zinc, Total	1150		mg/kg	4.76	--	2	01/03/25 14:36	01/03/25 18:12	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-25

Date Collected: 12/20/24 13:00

Client ID: B-13 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.55	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Arsenic, Total	2.94		mg/kg	0.911	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Barium, Total	19.1		mg/kg	0.911	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.455	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.911	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Chromium, Total	6.67		mg/kg	0.911	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Lead, Total	22.2		mg/kg	4.55	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Mercury, Total	ND		mg/kg	0.083	--	1	01/03/25 15:29	01/04/25 13:40	EPA 7471B	97,7471B	DJR
Nickel, Total	3.58		mg/kg	2.28	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.55	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.911	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.55	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Vanadium, Total	10.4		mg/kg	0.911	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM
Zinc, Total	28.0		mg/kg	4.55	--	2	01/03/25 14:36	01/03/25 17:07	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-26

Date Collected: 12/20/24 13:10

Client ID: B-13 3-5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	6.54		mg/kg	5.18	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Arsenic, Total	14.8		mg/kg	1.04	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Barium, Total	301		mg/kg	1.04	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.518	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Cadmium, Total	2.32		mg/kg	1.04	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Chromium, Total	22.0		mg/kg	1.04	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Lead, Total	755		mg/kg	5.18	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Mercury, Total	0.543		mg/kg	0.087	--	1	01/03/25 15:29	01/04/25 13:43	EPA 7471B	97,7471B	DJR
Nickel, Total	18.6		mg/kg	2.59	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	5.18	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	1.04	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	5.18	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Vanadium, Total	16.0		mg/kg	1.04	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM
Zinc, Total	892		mg/kg	5.18	--	2	01/03/25 14:36	01/03/25 17:10	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-27

Date Collected: 12/20/24 13:20

Client ID: B-14 0-.5

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.60	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Arsenic, Total	1.77		mg/kg	0.919	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Barium, Total	16.6		mg/kg	0.919	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.460	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.919	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Chromium, Total	9.20		mg/kg	0.919	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Lead, Total	22.2		mg/kg	4.60	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Mercury, Total	ND		mg/kg	0.083	--	1	01/03/25 15:29	01/04/25 13:47	EPA 7471B	97,7471B	DJR
Nickel, Total	4.08		mg/kg	2.30	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.60	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.919	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.60	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Vanadium, Total	8.40		mg/kg	0.919	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM
Zinc, Total	35.4		mg/kg	4.60	--	2	01/03/25 14:36	01/03/25 17:14	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**SAMPLE RESULTS**

Lab ID: L2475966-28

Date Collected: 12/20/24 13:30

Client ID: B-14 2-4

Date Received: 12/24/24

Sample Location: 525 GIFFORD ST,FALMOUTH MA 02540

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	5.81	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Arsenic, Total	6.30		mg/kg	1.16	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Barium, Total	33.3		mg/kg	1.16	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.581	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	1.16	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Chromium, Total	4.92		mg/kg	1.16	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Lead, Total	31.1		mg/kg	5.81	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Mercury, Total	ND		mg/kg	0.097	--	1	01/03/25 15:29	01/04/25 13:50	EPA 7471B	97,7471B	DJR
Nickel, Total	ND		mg/kg	2.91	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	5.81	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	1.16	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	5.81	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Vanadium, Total	11.3		mg/kg	1.16	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM
Zinc, Total	48.9		mg/kg	5.81	--	2	01/03/25 14:36	01/03/25 17:17	EPA 3050B	97,6010D	EFM



Project Name: TROTting FIELD

Lab Number: L2475966

Project Number: 30251964

Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-17 Batch: WG2015568-1									
Antimony, Total	ND	mg/kg	2.00	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Arsenic, Total	ND	mg/kg	0.400	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Barium, Total	ND	mg/kg	0.400	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Beryllium, Total	ND	mg/kg	0.200	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Cadmium, Total	ND	mg/kg	0.400	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Chromium, Total	ND	mg/kg	0.400	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Lead, Total	ND	mg/kg	2.00	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Nickel, Total	ND	mg/kg	1.00	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Selenium, Total	ND	mg/kg	2.00	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Silver, Total	ND	mg/kg	0.400	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Thallium, Total	ND	mg/kg	2.00	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Vanadium, Total	ND	mg/kg	0.400	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL
Zinc, Total	ND	mg/kg	2.00	--	1	01/02/25 15:10	01/02/25 16:47	97,6010D	DHL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-17 Batch: WG2015570-1									
Mercury, Total	ND	mg/kg	0.083	--	1	01/02/25 17:22	01/02/25 18:31	97,7471B	JWN

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 18-28 Batch: WG2015902-1									
Antimony, Total	ND	mg/kg	2.00	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Arsenic, Total	ND	mg/kg	0.400	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Barium, Total	ND	mg/kg	0.400	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM



Project Name: TROTting FIELD

Lab Number: L2475966

Project Number: 30251964

Report Date: 01/06/25

Method Blank Analysis Batch Quality Control

Beryllium, Total	ND	mg/kg	0.200	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Cadmium, Total	ND	mg/kg	0.400	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Chromium, Total	ND	mg/kg	0.400	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Lead, Total	ND	mg/kg	2.00	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Nickel, Total	ND	mg/kg	1.00	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Selenium, Total	ND	mg/kg	2.00	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Silver, Total	ND	mg/kg	0.400	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Thallium, Total	ND	mg/kg	2.00	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Vanadium, Total	ND	mg/kg	0.400	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM
Zinc, Total	ND	mg/kg	2.00	--	1	01/03/25 14:36	01/03/25 17:41	97,6010D	EFM

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 18-28 Batch: WG2015903-1										
Mercury, Total	ND		mg/kg	0.083	--	1	01/03/25 15:29	01/04/25 12:43	97,7471B	DJR

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-17 Batch: WG2015568-2 WG2015568-3 SRM Lot Number: D123-540								
Antimony, Total	168		179		2-201	6		30
Arsenic, Total	94		100		82-118	6		30
Barium, Total	93		103		82-118	10		30
Beryllium, Total	95		103		83-117	8		30
Cadmium, Total	95		102		83-118	7		30
Chromium, Total	97		103		81-118	6		30
Lead, Total	97		102		82-119	5		30
Nickel, Total	99		105		82-118	6		30
Selenium, Total	94		101		81-119	7		30
Silver, Total	98		104		79-120	6		30
Thallium, Total	94		101		81-120	7		30
Vanadium, Total	96		104		78-122	8		30
Zinc, Total	98		104		80-120	6		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-17 Batch: WG2015570-2 WG2015570-3 SRM Lot Number: D123-540								
Mercury, Total	104		97		67-132	7		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting FIELD

Project Number: 30251964

Lab Number: L2475966

Report Date: 01/06/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 18-28 Batch: WG2015902-2 WG2015902-3 SRM Lot Number: D123-540					
Antimony, Total	157	168	2-201	7	30
Arsenic, Total	96	96	82-118	0	30
Barium, Total	99	103	82-118	4	30
Beryllium, Total	96	97	83-117	1	30
Cadmium, Total	95	95	83-118	0	30
Chromium, Total	93	96	81-118	3	30
Lead, Total	99	99	82-119	0	30
Nickel, Total	95	96	82-118	1	30
Selenium, Total	98	98	81-119	0	30
Silver, Total	94	94	79-120	0	30
Thallium, Total	101	102	81-120	1	30
Vanadium, Total	94	97	78-122	3	30
Zinc, Total	93	94	80-120	1	30
MCP Total Metals - Mansfield Lab Associated sample(s): 18-28 Batch: WG2015903-2 WG2015903-3 SRM Lot Number: D123-540					
Mercury, Total	107	108	67-132	1	30

INORGANICS & MISCELLANEOUS

Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-01**Client ID:** B-1 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 09:20**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	12/26/24 14:03	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-02**Client ID:** B-1 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 09:15**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	12/26/24 14:03	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-03**Client ID:** B-2 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 09:30**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	12/26/24 14:03	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-04**Client ID:** B-2 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 09:40**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	12/26/24 14:03	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-05**Client ID:** B-3 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 09:55**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	65.4		%	0.100	NA	1	-	12/26/24 14:03	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-06**Client ID:** B-3 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 09:45**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.7		%	0.100	NA	1	-	12/26/24 14:03	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-07**Client ID:** B-4 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 10:00**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	12/26/24 14:03	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-08**Client ID:** B-4 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 10:05**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.9		%	0.100	NA	1	-	12/26/24 14:44	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-09**Client ID:** B-5 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 10:15**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.5		%	0.100	NA	1	-	12/26/24 14:44	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-10**Client ID:** B-5 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 10:25**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	12/26/24 14:44	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-11**Client ID:** B-6 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 10:30**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	12/26/24 14:44	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-12**Client ID:** B-6 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 10:40**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	12/26/24 14:44	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-13**Client ID:** B-7 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 11:00**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	12/26/24 14:44	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-14**Client ID:** B-7 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 11:10**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	12/26/24 14:44	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-15**Client ID:** B-8 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 11:20**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.4		%	0.100	NA	1	-	12/26/24 14:44	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-16**Client ID:** B-8 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 11:30**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-17**Client ID:** B-9 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 11:40**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	50.7		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-18**Client ID:** B-9 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 11:50**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.1		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-19**Client ID:** B-10 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 12:00**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.3		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-20**Client ID:** B-10 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 12:10**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-21**Client ID:** B-11 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 12:20**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	56.2		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-22**Client ID:** B-11 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 12:30**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-23**Client ID:** B-12 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 12:40**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.1		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-24**Client ID:** B-12 .5-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 12:50**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-25**Client ID:** B-13 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 13:00**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-26**Client ID:** B-13 3-5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 13:10**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.5		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-27**Client ID:** B-14 0-.5**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 13:20**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Project Name: TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25**SAMPLE RESULTS****Lab ID:** L2475966-28**Client ID:** B-14 2-4**Sample Location:** 525 GIFFORD ST,FALMOUTH MA 02540**Date Collected:** 12/20/24 13:30**Date Received:** 12/24/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.5		%	0.100	NA	1	-	12/27/24 10:53	121,2540G	ROI



Lab Duplicate Analysis*Batch Quality Control***Project Name:** TROTting FIELD**Project Number:** 30251964**Lab Number:** L2475966**Report Date:** 01/06/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 16-28 QC Batch ID: WG2014041-1 QC Sample: L2475966-16 Client ID: B-8 .5-5						
Solids, Total	85.7	85.8	%	0		20

Project Name: TROTting FIELD**Lab Number:** L2475966**Project Number:** 30251964**Report Date:** 01/06/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

B Absent

C Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475966-01A	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-01C	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-02A	Vial MeOH preserved	A	NA		5.5	Y	Absent		MCP-8260HLW-21(14)
L2475966-02B	Vial water preserved	A	NA		5.5	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-02C	Vial water preserved	A	NA		5.5	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-02D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-02F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-03A	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)

Project Name: TROTting FIELD
Project Number: 30251964

Serial_No: 01062510:49
Lab Number: L2475966
Report Date: 01/06/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475966-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-03C	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-04A	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2475966-04C	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-05A	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2475966-05C	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-06A	Vial MeOH preserved	A	NA		5.5	Y	Absent		MCP-8260HLW-21(14)
L2475966-06B	Vial water preserved	A	NA		5.5	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-06C	Vial water preserved	A	NA		5.5	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-06D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)

Project Name: TROTting FIELD
Project Number: 30251964

Serial_No: 01062510:49
Lab Number: L2475966
Report Date: 01/06/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475966-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-06F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-07A	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-07B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-07C	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-08A	Vial MeOH preserved	A	NA		5.5	Y	Absent		MCP-8260HLW-21(14)
L2475966-08B	Vial water preserved	A	NA		5.5	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-08C	Vial water preserved	A	NA		5.5	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-08D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-08F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-09A	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)

Project Name: TROTting FIELD
Project Number: 30251964

Serial_No: 01062510:49
Lab Number: L2475966
Report Date: 01/06/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475966-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-09C	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-10A	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-10B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-10C	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-11A	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-11C	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-12A	Vial MeOH preserved	A	NA		5.5	Y	Absent		MCP-8260HLW-21(14)
L2475966-12B	Vial water preserved	A	NA		5.5	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-12C	Vial water preserved	A	NA		5.5	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-12D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)

Project Name: TROTting FIELD
Project Number: 30251964

Serial_No: 01062510:49
Lab Number: L2475966
Report Date: 01/06/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475966-12E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2475966-12F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-13A	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-13B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-13C	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-14A	Vial MeOH preserved	A	NA		5.5	Y	Absent		MCP-8260HLW-21(14)
L2475966-14B	Vial water preserved	A	NA		5.5	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-14C	Vial water preserved	A	NA		5.5	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-14D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-14E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-14F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-15A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475966-15B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2475966-15C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-16A	Vial MeOH preserved	B	NA		4.7	Y	Absent		MCP-8260HLW-21(14)
L2475966-16B	Vial water preserved	B	NA		4.7	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-16C	Vial water preserved	B	NA		4.7	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-16D	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-16E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2475966-16F	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-17A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-17B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-17C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-18A	Vial MeOH preserved	B	NA		4.7	Y	Absent		MCP-8260HLW-21(14)
L2475966-18B	Vial water preserved	B	NA		4.7	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-18C	Vial water preserved	B	NA		4.7	Y	Absent	20-DEC-24 17:00	MCP-8260HLW-21(14)
L2475966-18D	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475966-18E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-18F	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-19A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-19B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180)
L2475966-19C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-20A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-20B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180)
L2475966-20C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-21A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-21B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180)
L2475966-21C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475966-22A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-22B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-22C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-23A	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L2475966-23B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-23C	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-24A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-24B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2475966-24C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-25A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-25B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475966-25C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-26A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-26B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-26C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-27A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-27B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-27C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2475966-28A	Plastic 2oz unpreserved for TS	B	NA		4.7	Y	Absent		TS(7)
L2475966-28B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2475966-28C	Glass 120ml/4oz unpreserved	B	NA		4.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TROTting FIELD
Project Number: 30251964

Lab Number: L2475966
Report Date: 01/06/25

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSCCAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010; WSC-CAM-IIIA and IIID, January 2024; WSC-CAM-IIIB and VA, February 2024; WSC-CAM-VB and VC, April 2024; and WSC-CAM-VIA, VIB, IXA, and IXB, October 2024.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 135 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, December 2019, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, March 1, 2020.
- 141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **23**Published Date: **12/09/2024**Page **1** of **1****Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Project Manager.

ANALYSIS REQUESTED

Requested Turnaround Time		Dissolved Metals Samples	
7-Day ☐	10-Day ☒	☐	Field Filtered
PFAS 10-Day (std) ☐	Due Date:	☐	Lab to Filter
Rush Approval Required		Orthophosphate Samples	
1-Day ☐	3-Day ☐	☐	Field Filtered
2-Day ☐	4-Day ☐	☐	Lab to Filter
Data Delivery			
Format: PDF ☒	EXCEL ☒	PCB ONLY	
Other: _____		SOXHLET	☐
CLP Like Data Pkg Required: ☐		NON SOXHLET	☐
Email To: _____			
Fax To #: _____			

Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please
 define)

Received by: (signature)	Date/Time:
Lab Comments:	

Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 K = Sodium Hydroxide
 T = Sodium
 Thiosulfate
 O = Other (please
 define)

Page 221 of 231

Method Blank Summary

Form 4

Volatiles

Client	: Arcadis U.S., Inc	Lab Number	: L2475966
Project Name	: TROTting FIELD	Project Number	: 30251964
Lab Sample ID	: WG2015783-5	Lab File ID	: V04250102A05
Instrument ID	: VOA104		
Matrix	: SOIL	Analysis Date	: 01/02/25 10:01

Client Sample No.	Lab Sample ID	Analysis Date
WG2015783-3LCS	WG2015783-3	01/02/25 08:17
WG2015783-4LCSD	WG2015783-4	01/02/25 08:43
B-1 .5-5	L2475966-02	01/02/25 17:32
B-3 .5-5	L2475966-06	01/02/25 17:58
B-4 .5-5	L2475966-08	01/02/25 18:24
B-6 .5-5	L2475966-12	01/02/25 18:50
B-7 .5-5	L2475966-14	01/02/25 19:16
B-8 .5-5	L2475966-16	01/02/25 19:42

Method Blank Summary
Form 4
Volatiles

Client	: Arcadis U.S., Inc	Lab Number	: L2475966
Project Name	: TROTting FIELD	Project Number	: 30251964
Lab Sample ID	: WG2016027-5	Lab File ID	: V26250102A04
Instrument ID	: VOA126		
Matrix	: SOIL	Analysis Date	: 01/02/25 10:05

Client Sample No.	Lab Sample ID	Analysis Date
WG2016027-3LCS	WG2016027-3	01/02/25 08:09
WG2016027-4LCSD	WG2016027-4	01/02/25 08:48
B-9 .5-5	L2475966-18	01/02/25 10:44

Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis U.S., Inc
 Project Name : TROTting FIELD
 Instrument ID : VOA126
 Lab File ID : V26250102A01
 Sample No : WG2016027-2
 Channel :

Lab Number : L2475966
 Project Number : 30251964
 Calibration Date : 01/02/25 08:09
 Init. Calib. Date(s) : 10/21/24 10/22/24
 Init. Calib. Times : 19:44 02:15

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	164	0
Dichlorodifluoromethane	0.332	0.275	-	17.2	20	140	0
Chloromethane	0.288	0.32	-	-11.1	20	200	0
Vinyl chloride	0.381	0.353	-	7.3	20	152	0
Bromomethane	0.173	0.193	-	-11.6	20	206	0
Chloroethane	0.183	0.194	-	-6	20	181	0
Trichlorofluoromethane	0.453	0.418	-	7.7	20	156	0
Ethyl ether	0.108	0.11	-	-1.9	20	181	0
1,1-Dichloroethene	0.247	0.241	-	2.4	20	164	0
Carbon disulfide	0.965	0.85	-	11.9	20	163	0
Freon-113	0.259	0.263	-	-1.5	20	176	-.01
Acrolein	0.018	0.025	-	-38.9*	20	247	0
Methylene chloride	40	34.218	-	14.5	20	153	-.01
Acetone	40	53.31	-	-33.3*	20	248	0
trans-1,2-Dichloroethene	0.282	0.269	-	4.6	20	160	0
Methyl acetate	0.108	0.101	-	6.5	20	178	-.01
Methyl tert-butyl ether	0.619	0.529	-	14.5	20	146	0
tert-Butyl alcohol	0.016	0.012	-	25*	20	131	0
Diisopropyl ether	0.808	0.861	-	-6.6	20	184	0
1,1-Dichloroethane	0.502	0.492	-	2	20	167	0
Halothane	0.215	0.197	-	8.4	20	155	0
Acrylonitrile	0.05	0.053	-	-6	20	191	-.02
Ethyl tert-butyl ether	0.758	0.67	-	11.6	20	151	-.01
Vinyl acetate	0.309	0.343	-	-11	20	178	-.01
cis-1,2-Dichloroethene	0.312	0.279	-	10.6	20	154	0
2,2-Dichloropropane	0.461	0.369	-	20	20	135	0
Bromochloromethane	0.131	0.11	-	16	20	141	-.01
Cyclohexane	0.449	0.523	-	-16.5	20	208	0
Chloroform	0.53	0.468	-	11.7	20	149	0
Ethyl acetate	0.149	0.144	-	3.4	20	168	-.01
Carbon tetrachloride	0.435	0.366	-	15.9	20	139	-.01
Tetrahydrofuran	0.043	0.041	-	4.7	20	176	0
Dibromofluoromethane	0.26	0.243	-	6.5	20	157	-.01
1,1,1-Trichloroethane	0.492	0.409	-	16.9	20	140	-.01
2-Butanone	40	38.315	-	4.2	20	178	0
1,1-Dichloropropene	0.399	0.377	-	5.5	20	158	0
Benzene	1.151	1.056	-	8.3	20	154	-.01
tert-Amyl methyl ether	0.669	0.549	-	17.9	20	138	0
1,2-Dichloroethane-d4	0.254	0.241	-	5.1	20	164	0
1,2-Dichloroethane	0.344	0.303	-	11.9	20	152	0
Methyl cyclohexane	0.495	0.506	-	-2.2	20	185	0
Trichloroethene	0.315	0.288	-	8.6	20	155	-.01
Dibromomethane	0.154	0.124	-	19.5	20	137	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis U.S., Inc
 Project Name : TROTting FIELD
 Instrument ID : VOA126
 Lab File ID : V26250102A01
 Sample No : WG2016027-2
 Channel :

Lab Number : L2475966
 Project Number : 30251964
 Calibration Date : 01/02/25 08:09
 Init. Calib. Date(s) : 10/21/24 10/22/24
 Init. Calib. Times : 19:44 02:15

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.267	0.268	-	-0.4	20	170	0
2-Chloroethyl vinyl ether	0.122	0.034	-	72.1*	20	47	-.01
Bromodichloromethane	0.388	0.332	-	14.4	20	141	-.01
1,4-Dioxane	0.00147	0.0014*	-	4.8	20	151	0
cis-1,3-Dichloropropene	0.416	0.381	-	8.4	20	148	0
Chlorobenzene-d5	1	1	-	0	20	163	0
Toluene-d8	1.467	1.435	-	2.2	20	161	0
Toluene	1.103	0.952	-	13.7	20	148	0
4-Methyl-2-pentanone	0.086	0.082	-	4.7	20	162	0
Tetrachloroethene	0.446	0.409	-	8.3	20	164	0
trans-1,3-Dichloropropene	0.527	0.434	-	17.6	20	137	0
Ethyl methacrylate	0.356	0.314	-	11.8	20	146	0
1,1,2-Trichloroethane	0.247	0.216	-	12.6	20	148	0
Chlorodibromomethane	0.356	0.294	-	17.4	20	131	0
1,3-Dichloropropane	0.502	0.453	-	9.8	20	155	0
1,2-Dibromoethane	0.282	0.232	-	17.7	20	135	0
2-Hexanone	0.18	0.152	-	15.6	20	163	0
Chlorobenzene	1.133	0.985	-	13.1	20	146	0
Ethylbenzene	2.056	1.834	-	10.8	20	152	0
1,1,1,2-Tetrachloroethane	0.389	0.329	-	15.4	20	135	0
p/m Xylene	0.802	0.691	-	13.8	20	144	0
o Xylene	0.768	0.65	-	15.4	20	143	0
Styrene	1.248	1.051	-	15.8	20	139	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	151	0
Bromoform	0.412	0.306	-	25.7*	20	115	0
Isopropylbenzene	3.987	3.581	-	10.2	20	150	0
4-Bromofluorobenzene	0.959	0.979	-	-2.1	20	161	0
Bromobenzene	0.91	0.763	-	16.2	20	130	0
n-Propylbenzene	4.624	4.331	-	6.3	20	157	0
1,4-Dichlorobutane	0.786	0.818	-	-4.1	20	173	0
1,1,2,2-Tetrachloroethane	0.652	0.576	-	11.7	20	143	0
4-Ethyltoluene	3.735	3.513	-	5.9	20	156	0
2-Chlorotoluene	3.08	2.745	-	10.9	20	151	0
1,3,5-Trimethylbenzene	3.352	2.965	-	11.5	20	150	0
1,2,3-Trichloropropane	0.463	0.415	-	10.4	20	149	0
trans-1,4-Dichloro-2-buten	0.19	0.179	-	5.8	20	159	0
4-Chlorotoluene	2.74	2.518	-	8.1	20	154	0
tert-Butylbenzene	2.873	2.545	-	11.4	20	150	0
1,2,4-Trimethylbenzene	3.204	2.851	-	11	20	147	0
sec-Butylbenzene	4.289	3.944	-	8	20	157	0
p-Isopropyltoluene	3.619	3.294	-	9	20	153	0
1,3-Dichlorobenzene	1.75	1.536	-	12.2	20	140	0
1,4-Dichlorobenzene	1.715	1.519	-	11.4	20	141	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis U.S., Inc
 Project Name : TROTting FIELD
 Instrument ID : VOA126
 Lab File ID : V26250102A01
 Sample No : WG2016027-2
 Channel :

Lab Number : L2475966
 Project Number : 30251964
 Calibration Date : 01/02/25 08:09
 Init. Calib. Date(s) : 10/21/24 10/22/24
 Init. Calib. Times : 19:44 02:15

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	2.145	2.036	-	5.1	20	158	0
n-Butylbenzene	4.042	3.734	-	7.6	20	160	0
1,2-Dichlorobenzene	1.544	1.341	-	13.1	20	138	0
1,2,4,5-Tetramethylbenzene	2.796	2.786	-	0.4	20	161	0
1,2-Dibromo-3-chloropropan	0.082	0.063	-	23.2*	20	113	0
1,3,5-Trichlorobenzene	1.08	1.1	-	-1.9	20	159	0
Hexachlorobutadiene	0.47	0.504	-	-7.2	20	176	0
1,2,4-Trichlorobenzene	0.702	0.76	-	-8.3	20	163	0
Naphthalene	1.159	1.094	-	5.6	20	149	0
1,2,3-Trichlorobenzene	0.429	0.419	-	2.3	20	163	0

* Value outside of QC limits.

Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis U.S., Inc
 Project Name : TROTting FIELD
 Instrument ID : VOA104
 Lab File ID : V04250102A01
 Sample No : WG2015783-2
 Channel :

Lab Number : L2475966
 Project Number : 30251964
 Calibration Date : 01/02/25 08:17
 Init. Calib. Date(s) : 12/20/24 12/20/24
 Init. Calib. Times : 07:44 12:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	143	0
Dichlorodifluoromethane	0.347	0.374	-	-7.8	20	158	0
Chloromethane	0.293	0.283	-	3.4	20	144	0
Vinyl chloride	0.34	0.375	-	-10.3	20	159	0
Bromomethane	0.228	0.323	-	-41.7*	20	211	0
Chloroethane	0.206	0.237	-	-15	20	160	0
Trichlorofluoromethane	0.53	0.659	-	-24.3*	20	172	0
Ethyl ether	0.124	0.113	-	8.9	20	133	0
1,1-Dichloroethene	0.287	0.295	-	-2.8	20	154	0
Carbon disulfide	0.936	0.971	-	-3.7	20	151	0
Freon-113	0.308	0.342	-	-11	20	154	0
Acrolein	0.028	0.025	-	10.7	20	130	0
Methylene chloride	0.33	0.297	-	10	20	137	0
Acetone	0.062	0.053	-	14.5	20	135	0
trans-1,2-Dichloroethene	0.309	0.314	-	-1.6	20	149	-.01
Methyl acetate	0.093	0.073	-	21.5*	20	113	0
Methyl tert-butyl ether	0.729	0.65	-	10.8	20	131	0
tert-Butyl alcohol	0.022	0.019	-	13.6	20	124	0
Diisopropyl ether	0.795	0.637	-	19.9	20	115	0
1,1-Dichloroethane	0.54	0.5	-	7.4	20	130	0
Halothane	0.252	0.258	-	-2.4	20	143	0
Acrylonitrile	0.045	0.037	-	17.8	20	112	0
Ethyl tert-butyl ether	0.822	0.699	-	15	20	120	0
Vinyl acetate	0.414	0.383	-	7.5	20	126	0
cis-1,2-Dichloroethene	0.343	0.314	-	8.5	20	139	0
2,2-Dichloropropane	0.509	0.487	-	4.3	20	140	0
Bromochloromethane	0.158	0.152	-	3.8	20	136	0
Cyclohexane	0.428	0.394	-	7.9	20	132	0
Chloroform	0.557	0.521	-	6.5	20	133	0
Ethyl acetate	0.148	0.121	-	18.2	20	111	0
Carbon tetrachloride	0.485	0.488	-	-0.6	20	142	0
Tetrahydrofuran	0.045	0.042	-	6.7	20	134	0
Dibromofluoromethane	0.314	0.299	-	4.8	20	136	0
1,1,1-Trichloroethane	0.51	0.484	-	5.1	20	137	0
2-Butanone	0.062	0.045	-	27.4*	20	95	0
1,1-Dichloropropene	0.374	0.368	-	1.6	20	135	0
Benzene	1.105	1.01	-	8.6	20	129	0
tert-Amyl methyl ether	0.757	0.646	-	14.7	20	126	0
1,2-Dichloroethane-d4	0.271	0.229	-	15.5	20	124	0
1,2-Dichloroethane	0.364	0.309	-	15.1	20	122	0
Methyl cyclohexane	0.507	0.482	-	4.9	20	141	0
Trichloroethene	0.306	0.315	-	-2.9	20	140	0
Dibromomethane	0.191	0.167	-	12.6	20	130	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis U.S., Inc
 Project Name : TROTting FIELD
 Instrument ID : VOA104
 Lab File ID : V04250102A01
 Sample No : WG2015783-2
 Channel :

Lab Number : L2475966
 Project Number : 30251964
 Calibration Date : 01/02/25 08:17
 Init. Calib. Date(s) : 12/20/24 12/20/24
 Init. Calib. Times : 07:44 12:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.288	0.242	-	16	20	123	0
2-Chloroethyl vinyl ether	0.144	0.071	-	50.7*	20	68	0
Bromodichloromethane	0.455	0.386	-	15.2	20	126	0
1,4-Dioxane	0.00166	0.00181*	-	-9	20	142	0
cis-1,3-Dichloropropene	0.46	0.425	-	7.6	20	127	0
Chlorobenzene-d5	1	1	-	0	20	137	0
Toluene-d8	1.431	1.352	-	5.5	20	128	0
Toluene	0.952	0.894	-	6.1	20	130	0
4-Methyl-2-pentanone	0.09	0.072	-	20	20	111	0
Tetrachloroethene	0.417	0.479	-	-14.9	20	150	0
trans-1,3-Dichloropropene	0.516	0.478	-	7.4	20	122	0
Ethyl methacrylate	0.331	0.303	-	8.5	20	121	0
1,1,2-Trichloroethane	0.257	0.235	-	8.6	20	125	0
Chlorodibromomethane	0.453	0.419	-	7.5	20	129	0
1,3-Dichloropropane	0.477	0.432	-	9.4	20	122	0
1,2-Dibromoethane	0.306	0.299	-	2.3	20	129	0
2-Hexanone	0.137	0.111	-	19	20	108	0
Chlorobenzene	1.079	1.068	-	1	20	137	0
Ethylbenzene	1.811	1.742	-	3.8	20	130	0
1,1,1,2-Tetrachloroethane	0.418	0.405	-	3.1	20	131	0
p/m Xylene	0.672	0.667	-	0.7	20	133	0
o Xylene	0.671	0.654	-	2.5	20	131	0
Styrene	1.08	1.037	-	4	20	129	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	132	0
Bromoform	0.491	0.499	-	-1.6	20	133	0
Isopropylbenzene	3.347	3.332	-	0.4	20	132	0
4-Bromofluorobenzene	0.985	0.882	-	10.5	20	119	0
Bromobenzene	0.866	0.881	-	-1.7	20	134	0
n-Propylbenzene	3.86	3.896	-	-0.9	20	135	0
1,4-Dichlorobutane	0.76	0.622	-	18.2	20	110	0
1,1,2,2-Tetrachloroethane	0.704	0.632	-	10.2	20	123	0
4-Ethyltoluene	3.132	3.28	-	-4.7	20	139	0
2-Chlorotoluene	2.226	2.208	-	0.8	20	129	0
1,3,5-Trimethylbenzene	2.851	2.792	-	2.1	20	132	0
1,2,3-Trichloropropane	0.5	0.434	-	13.2	20	119	0
trans-1,4-Dichloro-2-buten	0.185	0.156	-	15.7	20	121	0
4-Chlorotoluene	2.247	2.245	-	0.1	20	133	0
tert-Butylbenzene	2.383	2.37	-	0.5	20	132	0
1,2,4-Trimethylbenzene	2.746	2.699	-	1.7	20	132	0
sec-Butylbenzene	3.618	3.644	-	-0.7	20	135	0
p-Isopropyltoluene	2.937	3.087	-	-5.1	20	140	0
1,3-Dichlorobenzene	1.537	1.633	-	-6.2	20	141	0
1,4-Dichlorobenzene	1.59	1.635	-	-2.8	20	140	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis U.S., Inc
 Project Name : TROTting FIELD
 Instrument ID : VOA104
 Lab File ID : V04250102A01
 Sample No : WG2015783-2
 Channel :

Lab Number : L2475966
 Project Number : 30251964
 Calibration Date : 01/02/25 08:17
 Init. Calib. Date(s) : 12/20/24 12/20/24
 Init. Calib. Times : 07:44 12:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.674	1.833	-	-9.5	20	146	0
n-Butylbenzene	2.4	2.688	-	-12	20	148	0
1,2-Dichlorobenzene	1.479	1.491	-	-0.8	20	135	0
1,2,4,5-Tetramethylbenzene	2.454	2.746	-	-11.9	20	149	0
1,2-Dibromo-3-chloropropan	0.112	0.113	-	-0.9	20	126	0
1,3,5-Trichlorobenzene	1.111	1.349	-	-21.4*	20	160	0
Hexachlorobutadiene	0.616	0.707	-	-14.8	20	149	0
1,2,4-Trichlorobenzene	0.896	1.07	-	-19.4	20	154	0
Naphthalene	1.599	1.638	-	-2.4	20	137	0
1,2,3-Trichlorobenzene	0.791	0.895	-	-13.1	20	146	0

* Value outside of QC limits.





SAMPLE ACKNOWLEDGMENT

Eight Walkup Drive
Westborough, MA 01581-1019
(508)898-9220

Report To:

Arcadis U.S., Inc
Jim Luker
500 Edgewater Drive
Suite 511
Wakefield, MA 01880

Phone: (999) 999-9999

Email: James.luker@arcadis.com

Invoice To:

58-101195
Arcadis, US. Inc.
Accounts Payable
630 Plaza Drive, Suite 600
Highlands Ranch, CO 80129

Phone: () -

Email: accounts payable.administration@arcadis-us.com

Pace Project Manager: Dave Sanford
508.439.5157
David.Sanford@pacelabs.com

Client Project ID: 30251964.12

Pace Analytical SDG: L2513851

Client PO#: 30251964.12

Samples Received: March 11, 2025 04:38 PM

PO Required: Yes

Estimated Completion: March 18, 2025

State Samples collected in: MA

Invoice CC: invoices_us@arcadis.com

Qty	Unit	Description	Method	Matrix	Price	Total
23	Ea	EPH with GC Targets	EPH-19-2.1	Soil	\$ 148.00	\$ 3404.00
23	Ea	MCP 8082A - Polychlorinated Biphenyls	8082A	Soil	\$ 68.00	\$ 1564.00
2	Ea	MCP 5035/8260C VOCs - High & Low Level	8260D	Soil	\$ 91.00	\$ 182.00
18	Ea	MCP 6010D/7470A - Total MCP 14 Metals	PACKAGE	Soil	\$.00	\$.00
5	Ea	MCP 6010D/7470A - Total MCP 14 Metals	PACKAGE	Soil	\$ 130.00	\$ 650.00
1	Ea	Total Solids - SM 2540	2540G	Soil	\$ 3.00	\$ 3.00
22	Ea	Total Solids - SM 2540	2540G	Soil	\$ 5.00	\$ 110.00

Information Only-Not An Invoice-Do Not Pay!

Estimated Total: \$ 5913.00

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Confidentiality Statement: The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.



SAMPLE ACKNOWLEDGMENT

Eight Walkup Drive
Westborough, MA 01581-1019
(508)898-9220

Final Report CC:

Customer Sample ID	Pace Analytical Sample ID	Matrix	Date/Time Collected	Product Due Date	Analysis Description
B-24 (0-1)	L2513851-01	Soil	03/11/25 09:30	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-24 (0-3)	L2513851-02	Soil	03/11/25 09:35	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-25 (0-1)	L2513851-03	Soil	03/11/25 09:50	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-26 (0-1)	L2513851-04	Soil	03/11/25 10:10	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-26 (0-3)	L2513851-05	Soil	03/11/25 10:15	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-15 (0-1)	L2513851-06	Soil	03/11/25 10:30	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-15 (0-3)	L2513851-07	Soil	03/11/25 10:35	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-16 (0-1)	L2513851-08	Soil	03/11/25 10:40	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-16 (0-3)	L2513851-09	Soil	03/11/25 10:45	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-17 (0-1)	L2513851-10	Soil	03/11/25 10:55	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540

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SAMPLE ACKNOWLEDGMENT

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Westborough, MA 01581-1019
(508)898-9220

Customer Sample ID	Pace Analytical Sample ID	Matrix	Date/Time Collected	Product Due Date	Analysis Description
B-17 (0-3)	L2513851-11	Soil	03/11/25 11:00	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-18 (0-3)	L2513851-12	Soil	03/11/25 11:15	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-21 (0-1)	L2513851-13	Soil	03/11/25 11:35	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-21 (0-3)	L2513851-14	Soil	03/11/25 11:40	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-22 (0-1)	L2513851-15	Soil	03/11/25 11:55	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-22 (0-3)	L2513851-16	Soil	03/11/25 12:00	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-23 (0-1)	L2513851-17	Soil	03/11/25 12:05	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-23 (0-3)	L2513851-18	Soil	03/11/25 12:10	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-20 (0-1)	L2513851-19	Soil	03/11/25 13:05	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-20 (22-25)	L2513851-20	Soil	03/11/25 13:30	03/18/25	MCP 5035/8260D VOCs - High & Low Level MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540

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SAMPLE ACKNOWLEDGMENT

Eight Walkup Drive
Westborough, MA 01581-1019
(508)898-9220

Customer Sample ID	Pace Analytical Sample ID	Matrix	Date/Time Collected	Product Due Date	Analysis Description
B-19 (0-1)	L2513851-21	Soil	03/11/25 14:10	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
B-19 (22-25)	L2513851-22	Soil	03/11/25 14:45	03/18/25	MCP 5035/8260D VOCs - High & Low Level MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540
MW-1 (0-3)	L2513851-23	Soil	03/11/25 15:25	03/18/25	MCP 8082A - Polychlorinated Biphenyls EPH with GC Targets MCP 6010D/7470A - Total MCP 14 Metals Total Solids - SM 2540

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ANALYTICAL REPORT

Lab Number:	L2514164
Client:	Arcadis U.S., Inc. 500 Edgewater Drive Suite 511 Wakefield, MA 01880
ATTN:	Jim Luker
Phone:	(999) 999-9999
Project Name:	TROTting PARK
Project Number:	30251964.12
Report Date:	03/20/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2514164-01	MW-6 (0-1)	SOIL	525 GIFFORD ST FALMOUTH, MA	03/12/25 08:25	03/12/25
L2514164-02	MW-6 (0-4)	SOIL	525 GIFFORD ST FALMOUTH, MA	03/12/25 08:40	03/12/25
L2514164-03	MW-3 (0-3)	SOIL	525 GIFFORD ST FALMOUTH, MA	03/12/25 11:00	03/12/25
L2514164-04	MW-4 (0-3)	SOIL	525 GIFFORD ST FALMOUTH, MA	03/12/25 11:50	03/12/25
L2514164-05	MW-2 (0-3)	SOIL	525 GIFFORD ST FALMOUTH, MA	03/12/25 13:10	03/12/25
L2514164-06	MW-5 (0-3)	SOIL	525 GIFFORD ST FALMOUTH, MA	03/12/25 13:55	03/12/25
L2514164-07	MW-5 (10-11)	SOIL	525 GIFFORD ST FALMOUTH, MA	03/12/25 14:00	03/12/25

Project Name: TROTting PARK

Lab Number: L2514164

Project Number: 30251964.12

Report Date: 03/20/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is 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
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
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
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
E 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).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
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
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Total Metals.

Volatile Organics

L2514164-07D: A copy of the continuing calibration standard is included as an addendum to this report.

In reference to question G:

L2514164-07: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L2514164-07: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0011)

Average Response Factor: 1,4-dioxane

Verification: 1,4-dioxane (134%)

L2514164-07: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

Total Metals

L2514164-01 through -07: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

In reference to question G:

L2514164-03: One or more of the target analytes did not achieve the requested CAM reporting limits.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kelly O'Neill

Title: Technical Director/Representative

Date: 03/20/25

QC OUTLIER SUMMARY REPORT

Project Name: TROTting PARK**Project Number:** 30251964.12**Lab Number:** L2514164**Report Date:** 03/20/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035 High - Westborough Lab								
8260D	Batch QC	WG2043102-3	Chloromethane	LCS	146	70-130	07	potential high bias
8260D	Batch QC	WG2043102-3	Tetrahydrofuran	LCS	147	70-130	07	potential high bias
8260D	Batch QC	WG2043102-4	Methyl ethyl ketone	LCSD	134	70-130	07	potential high bias
8260D	Batch QC	WG2043102-4	Tetrahydrofuran	LCSD	156	70-130	07	potential high bias

ORGANICS

VOLATILES

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-07
 Client ID: MW-5 (10-11)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 14:00
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 141,8260D
 Analytical Date: 03/20/25 10:32
 Analyst: AJK
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	320	--	1
1,1-Dichloroethane	ND		ug/kg	63	--	1
Chloroform	ND		ug/kg	95	--	1
Carbon tetrachloride	ND		ug/kg	63	--	1
1,2-Dichloropropane	ND		ug/kg	63	--	1
Dibromochloromethane	ND		ug/kg	63	--	1
1,1,2-Trichloroethane	ND		ug/kg	63	--	1
Tetrachloroethene	ND		ug/kg	32	--	1
Chlorobenzene	ND		ug/kg	32	--	1
Trichlorofluoromethane	ND		ug/kg	250	--	1
1,2-Dichloroethane	ND		ug/kg	63	--	1
1,1,1-Trichloroethane	ND		ug/kg	32	--	1
Bromodichloromethane	ND		ug/kg	32	--	1
trans-1,3-Dichloropropene	ND		ug/kg	63	--	1
cis-1,3-Dichloropropene	ND		ug/kg	32	--	1
1,3-Dichloropropene, Total	ND		ug/kg	32	--	1
1,1-Dichloropropene	ND		ug/kg	32	--	1
Bromoform	ND		ug/kg	250	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	32	--	1
Benzene	ND		ug/kg	32	--	1
Toluene	330		ug/kg	63	--	1
Ethylbenzene	ND		ug/kg	63	--	1
Chloromethane	ND		ug/kg	250	--	1
Bromomethane	ND		ug/kg	130	--	1
Vinyl chloride	ND		ug/kg	63	--	1
Chloroethane	ND		ug/kg	130	--	1
1,1-Dichloroethene	ND		ug/kg	63	--	1
trans-1,2-Dichloroethene	ND		ug/kg	95	--	1



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-07
 Client ID: MW-5 (10-11)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 14:00
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	32	--	1
1,2-Dichlorobenzene	ND		ug/kg	130	--	1
1,3-Dichlorobenzene	ND		ug/kg	130	--	1
1,4-Dichlorobenzene	ND		ug/kg	130	--	1
Methyl tert butyl ether	ND		ug/kg	130	--	1
p/m-Xylene	ND		ug/kg	130	--	1
o-Xylene	ND		ug/kg	63	--	1
Xylenes, Total	ND		ug/kg	63	--	1
cis-1,2-Dichloroethene	ND		ug/kg	63	--	1
1,2-Dichloroethene, Total	ND		ug/kg	63	--	1
Dibromomethane	ND		ug/kg	130	--	1
1,2,3-Trichloropropane	ND		ug/kg	130	--	1
Styrene	ND		ug/kg	63	--	1
Dichlorodifluoromethane	ND		ug/kg	630	--	1
Acetone	750		ug/kg	630	--	1
Carbon disulfide	ND		ug/kg	630	--	1
Methyl ethyl ketone	ND		ug/kg	630	--	1
Methyl isobutyl ketone	ND		ug/kg	630	--	1
2-Hexanone	ND		ug/kg	630	--	1
Bromochloromethane	ND		ug/kg	130	--	1
Tetrahydrofuran	ND		ug/kg	250	--	1
2,2-Dichloropropane	ND		ug/kg	130	--	1
1,2-Dibromoethane	ND		ug/kg	63	--	1
1,3-Dichloropropane	ND		ug/kg	130	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	32	--	1
Bromobenzene	ND		ug/kg	130	--	1
n-Butylbenzene	ND		ug/kg	63	--	1
sec-Butylbenzene	ND		ug/kg	63	--	1
tert-Butylbenzene	ND		ug/kg	130	--	1
o-Chlorotoluene	ND		ug/kg	130	--	1
p-Chlorotoluene	ND		ug/kg	130	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	--	1
Hexachlorobutadiene	ND		ug/kg	250	--	1
Isopropylbenzene	ND		ug/kg	63	--	1
p-Isopropyltoluene	29000	E	ug/kg	63	--	1
Naphthalene	ND		ug/kg	250	--	1
n-Propylbenzene	ND		ug/kg	63	--	1



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS****Lab ID:** L2514164-07**Date Collected:** 03/12/25 14:00**Client ID:** MW-5 (10-11)**Date Received:** 03/12/25**Sample Location:** 525 GIFFORD ST FALMOUTH, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	130	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	130	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	--	1
Diethyl ether	ND		ug/kg	130	--	1
Diisopropyl Ether	ND		ug/kg	130	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	130	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	130	--	1
1,4-Dioxane	ND		ug/kg	5100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	89		70-130

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-07 D
 Client ID: MW-5 (10-11)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 14:00
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 141,8260D
 Analytical Date: 03/20/25 10:58
 Analyst: AJK
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
p-Isopropyltoluene	37000		ug/kg	1300	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	88		70-130

Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/20/25 09:40
 Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG2043102-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/20/25 09:40
 Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG2043102-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--



Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 03/20/25 09:40
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG2043102-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK

Project Number: 30251964.12

Lab Number: L2514164

Report Date: 03/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG2043102-3 WG2043102-4								
Methylene chloride	84		80		70-130	5		20
1,1-Dichloroethane	100		96		70-130	4		20
Chloroform	84		82		70-130	2		20
Carbon tetrachloride	83		81		70-130	2		20
1,2-Dichloropropane	97		99		70-130	2		20
Dibromochloromethane	82		85		70-130	4		20
1,1,2-Trichloroethane	82		85		70-130	4		20
Tetrachloroethene	90		90		70-130	0		20
Chlorobenzene	85		86		70-130	1		20
Trichlorofluoromethane	84		78		70-130	7		20
1,2-Dichloroethane	94		96		70-130	2		20
1,1,1-Trichloroethane	80		79		70-130	1		20
Bromodichloromethane	77		80		70-130	4		20
trans-1,3-Dichloropropene	85		88		70-130	3		20
cis-1,3-Dichloropropene	88		91		70-130	3		20
1,1-Dichloropropene	83		82		70-130	1		20
Bromoform	83		85		70-130	2		20
1,1,2,2-Tetrachloroethane	81		83		70-130	2		20
Benzene	84		84		70-130	0		20
Toluene	80		80		70-130	0		20
Ethylbenzene	83		83		70-130	0		20
Chloromethane	146	Q	128		70-130	13		20
Bromomethane	94		85		70-130	10		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK

Project Number: 30251964.12

Lab Number: L2514164

Report Date: 03/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG2043102-3 WG2043102-4								
Vinyl chloride	106		95		70-130	11		20
Chloroethane	90		82		70-130	9		20
1,1-Dichloroethene	88		80		70-130	10		20
trans-1,2-Dichloroethene	90		84		70-130	7		20
Trichloroethene	88		89		70-130	1		20
1,2-Dichlorobenzene	92		93		70-130	1		20
1,3-Dichlorobenzene	95		95		70-130	0		20
1,4-Dichlorobenzene	93		94		70-130	1		20
Methyl tert butyl ether	94		93		70-130	1		20
p/m-Xylene	85		87		70-130	2		20
o-Xylene	85		87		70-130	2		20
cis-1,2-Dichloroethene	84		84		70-130	0		20
Dibromomethane	78		81		70-130	4		20
1,2,3-Trichloropropane	82		85		70-130	4		20
Styrene	88		89		70-130	1		20
Dichlorodifluoromethane	100		90		70-130	11		20
Acetone	96		95		70-130	1		20
Carbon disulfide	92		86		70-130	7		20
Methyl ethyl ketone	130		134	Q	70-130	3		20
Methyl isobutyl ketone	111		115		70-130	4		20
2-Hexanone	118		124		70-130	5		20
Bromochloromethane	93		92		70-130	1		20
Tetrahydrofuran	147	Q	156	Q	70-130	6		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK

Project Number: 30251964.12

Lab Number: L2514164

Report Date: 03/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG2043102-3 WG2043102-4								
2,2-Dichloropropane	81		78		70-130	4		20
1,2-Dibromoethane	89		92		70-130	3		20
1,3-Dichloropropane	86		88		70-130	2		20
1,1,1,2-Tetrachloroethane	86		87		70-130	1		20
Bromobenzene	91		91		70-130	0		20
n-Butylbenzene	91		90		70-130	1		20
sec-Butylbenzene	84		83		70-130	1		20
tert-Butylbenzene	87		86		70-130	1		20
o-Chlorotoluene	87		87		70-130	0		20
p-Chlorotoluene	89		88		70-130	1		20
1,2-Dibromo-3-chloropropane	86		92		70-130	7		20
Hexachlorobutadiene	85		84		70-130	1		20
Isopropylbenzene	86		84		70-130	2		20
p-Isopropyltoluene	92		90		70-130	2		20
Naphthalene	109		110		70-130	1		20
n-Propylbenzene	86		84		70-130	2		20
1,2,3-Trichlorobenzene	97		96		70-130	1		20
1,2,4-Trichlorobenzene	101		102		70-130	1		20
1,3,5-Trimethylbenzene	84		83		70-130	1		20
1,2,4-Trimethylbenzene	85		85		70-130	0		20
Diethyl ether	98		94		70-130	4		20
Diisopropyl Ether	128		122		70-130	5		20
Ethyl-Tert-Butyl-Ether	114		112		70-130	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK

Project Number: 30251964.12

Lab Number: L2514164

Report Date: 03/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG2043102-3 WG2043102-4								
Tertiary-Amyl Methyl Ether	87		89		70-130	2		20
1,4-Dioxane	112		121		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		93		70-130
Toluene-d8	89		89		70-130
4-Bromofluorobenzene	91		89		70-130
Dibromofluoromethane	91		90		70-130

PETROLEUM HYDROCARBONS

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-01
 Client ID: MW-6 (0-1)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 08:25
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 03/17/25 11:16
 Analyst: CRE
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 03/15/25 23:25
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 03/17/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.28	--	1
C19-C36 Aliphatics	11.1		mg/kg	7.28	--	1
C11-C22 Aromatics	75.3		mg/kg	7.28	--	1
C11-C22 Aromatics, Adjusted	54.6		mg/kg	7.28	--	1
Naphthalene	ND		mg/kg	0.364	--	1
2-Methylnaphthalene	ND		mg/kg	0.364	--	1
Acenaphthylene	0.371		mg/kg	0.364	--	1
Acenaphthene	ND		mg/kg	0.364	--	1
Fluorene	ND		mg/kg	0.364	--	1
Phenanthrene	0.692		mg/kg	0.364	--	1
Anthracene	ND		mg/kg	0.364	--	1
Fluoranthene	3.04		mg/kg	0.364	--	1
Pyrene	3.19		mg/kg	0.364	--	1
Benzo(a)anthracene	2.10		mg/kg	0.364	--	1
Chrysene	2.14		mg/kg	0.364	--	1
Benzo(b)fluoranthene	2.60		mg/kg	0.364	--	1
Benzo(k)fluoranthene	0.992		mg/kg	0.364	--	1
Benzo(a)pyrene	2.32		mg/kg	0.364	--	1
Indeno(1,2,3-cd)Pyrene	1.40		mg/kg	0.364	--	1
Dibenzo(a,h)anthracene	0.436		mg/kg	0.364	--	1
Benzo(ghi)perylene	1.48		mg/kg	0.364	--	1



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-01

Date Collected: 03/12/25 08:25

Client ID: MW-6 (0-1)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	52		40-140
o-Terphenyl	68		40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	89		40-140

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-02
 Client ID: MW-6 (0-4)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 08:40
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 03/17/25 11:41
 Analyst: CRE
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 03/15/25 23:25
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 03/17/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.19	--	1
C19-C36 Aliphatics	13.6		mg/kg	7.19	--	1
C11-C22 Aromatics	10.3		mg/kg	7.19	--	1
C11-C22 Aromatics, Adjusted	10.3		mg/kg	7.19	--	1
Naphthalene	ND		mg/kg	0.360	--	1
2-Methylnaphthalene	ND		mg/kg	0.360	--	1
Acenaphthylene	ND		mg/kg	0.360	--	1
Acenaphthene	ND		mg/kg	0.360	--	1
Fluorene	ND		mg/kg	0.360	--	1
Phenanthrene	ND		mg/kg	0.360	--	1
Anthracene	ND		mg/kg	0.360	--	1
Fluoranthene	ND		mg/kg	0.360	--	1
Pyrene	ND		mg/kg	0.360	--	1
Benzo(a)anthracene	ND		mg/kg	0.360	--	1
Chrysene	ND		mg/kg	0.360	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.360	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.360	--	1
Benzo(a)pyrene	ND		mg/kg	0.360	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.360	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.360	--	1
Benzo(ghi)perylene	ND		mg/kg	0.360	--	1



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-02

Date Collected: 03/12/25 08:40

Client ID: MW-6 (0-4)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	52		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	90		40-140

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-03
 Client ID: MW-3 (0-3)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 11:00
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 03/17/25 12:06
 Analyst: CRE
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 03/15/25 23:25
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 03/17/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.86	--	1
C19-C36 Aliphatics	ND		mg/kg	6.86	--	1
C11-C22 Aromatics	ND		mg/kg	6.86	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.86	--	1
Naphthalene	ND		mg/kg	0.343	--	1
2-Methylnaphthalene	ND		mg/kg	0.343	--	1
Acenaphthylene	ND		mg/kg	0.343	--	1
Acenaphthene	ND		mg/kg	0.343	--	1
Fluorene	ND		mg/kg	0.343	--	1
Phenanthrene	ND		mg/kg	0.343	--	1
Anthracene	ND		mg/kg	0.343	--	1
Fluoranthene	ND		mg/kg	0.343	--	1
Pyrene	ND		mg/kg	0.343	--	1
Benzo(a)anthracene	ND		mg/kg	0.343	--	1
Chrysene	ND		mg/kg	0.343	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.343	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.343	--	1
Benzo(a)pyrene	ND		mg/kg	0.343	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.343	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.343	--	1
Benzo(ghi)perylene	ND		mg/kg	0.343	--	1



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-03

Date Collected: 03/12/25 11:00

Client ID: MW-3 (0-3)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	65		40-140
o-Terphenyl	81		40-140
2-Fluorobiphenyl	85		40-140
2-Bromonaphthalene	89		40-140

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-04
 Client ID: MW-4 (0-3)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 11:50
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 03/17/25 12:32
 Analyst: CRE
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 03/15/25 23:25
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 03/17/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.88	--	1
C19-C36 Aliphatics	ND		mg/kg	7.88	--	1
C11-C22 Aromatics	10.1		mg/kg	7.88	--	1
C11-C22 Aromatics, Adjusted	10.1		mg/kg	7.88	--	1
Naphthalene	ND		mg/kg	0.394	--	1
2-Methylnaphthalene	ND		mg/kg	0.394	--	1
Acenaphthylene	ND		mg/kg	0.394	--	1
Acenaphthene	ND		mg/kg	0.394	--	1
Fluorene	ND		mg/kg	0.394	--	1
Phenanthrene	ND		mg/kg	0.394	--	1
Anthracene	ND		mg/kg	0.394	--	1
Fluoranthene	ND		mg/kg	0.394	--	1
Pyrene	ND		mg/kg	0.394	--	1
Benzo(a)anthracene	ND		mg/kg	0.394	--	1
Chrysene	ND		mg/kg	0.394	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.394	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.394	--	1
Benzo(a)pyrene	ND		mg/kg	0.394	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.394	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.394	--	1
Benzo(ghi)perylene	ND		mg/kg	0.394	--	1



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-04

Date Collected: 03/12/25 11:50

Client ID: MW-4 (0-3)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	52		40-140
o-Terphenyl	69		40-140
2-Fluorobiphenyl	87		40-140
2-Bromonaphthalene	90		40-140

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-05
 Client ID: MW-2 (0-3)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 13:10
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 03/17/25 12:57
 Analyst: CRE
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 03/15/25 23:25
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 03/17/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.64	--	1
C19-C36 Aliphatics	16.2		mg/kg	6.64	--	1
C11-C22 Aromatics	21.3		mg/kg	6.64	--	1
C11-C22 Aromatics, Adjusted	19.6		mg/kg	6.64	--	1
Naphthalene	ND		mg/kg	0.332	--	1
2-Methylnaphthalene	ND		mg/kg	0.332	--	1
Acenaphthylene	ND		mg/kg	0.332	--	1
Acenaphthene	ND		mg/kg	0.332	--	1
Fluorene	ND		mg/kg	0.332	--	1
Phenanthrene	ND		mg/kg	0.332	--	1
Anthracene	ND		mg/kg	0.332	--	1
Fluoranthene	0.492		mg/kg	0.332	--	1
Pyrene	0.467		mg/kg	0.332	--	1
Benzo(a)anthracene	ND		mg/kg	0.332	--	1
Chrysene	ND		mg/kg	0.332	--	1
Benzo(b)fluoranthene	0.355		mg/kg	0.332	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.332	--	1
Benzo(a)pyrene	ND		mg/kg	0.332	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.332	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.332	--	1
Benzo(ghi)perylene	0.375		mg/kg	0.332	--	1



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-05

Date Collected: 03/12/25 13:10

Client ID: MW-2 (0-3)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	49		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	89		40-140

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-06
 Client ID: MW-5 (0-3)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 13:55
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 03/17/25 13:22
 Analyst: CRE
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 03/15/25 23:25
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 03/17/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.10	--	1
C19-C36 Aliphatics	ND		mg/kg	7.10	--	1
C11-C22 Aromatics	ND		mg/kg	7.10	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.10	--	1
Naphthalene	ND		mg/kg	0.355	--	1
2-Methylnaphthalene	ND		mg/kg	0.355	--	1
Acenaphthylene	ND		mg/kg	0.355	--	1
Acenaphthene	ND		mg/kg	0.355	--	1
Fluorene	ND		mg/kg	0.355	--	1
Phenanthrene	ND		mg/kg	0.355	--	1
Anthracene	ND		mg/kg	0.355	--	1
Fluoranthene	ND		mg/kg	0.355	--	1
Pyrene	ND		mg/kg	0.355	--	1
Benzo(a)anthracene	ND		mg/kg	0.355	--	1
Chrysene	ND		mg/kg	0.355	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.355	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.355	--	1
Benzo(a)pyrene	ND		mg/kg	0.355	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.355	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.355	--	1
Benzo(ghi)perylene	ND		mg/kg	0.355	--	1



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-06

Date Collected: 03/12/25 13:55

Client ID: MW-5 (0-3)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	64		40-140
o-Terphenyl	83		40-140
2-Fluorobiphenyl	82		40-140
2-Bromonaphthalene	86		40-140

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-07
 Client ID: MW-5 (10-11)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 14:00
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 03/17/25 13:47
 Analyst: CRE
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 03/15/25 23:25
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 03/17/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	57.3		mg/kg	7.72	--	1
C19-C36 Aliphatics	375		mg/kg	7.72	--	1
C11-C22 Aromatics	95.7		mg/kg	7.72	--	1
C11-C22 Aromatics, Adjusted	95.7		mg/kg	7.72	--	1
Naphthalene	ND		mg/kg	0.386	--	1
2-Methylnaphthalene	ND		mg/kg	0.386	--	1
Acenaphthylene	ND		mg/kg	0.386	--	1
Acenaphthene	ND		mg/kg	0.386	--	1
Fluorene	ND		mg/kg	0.386	--	1
Phenanthrene	ND		mg/kg	0.386	--	1
Anthracene	ND		mg/kg	0.386	--	1
Fluoranthene	ND		mg/kg	0.386	--	1
Pyrene	ND		mg/kg	0.386	--	1
Benzo(a)anthracene	ND		mg/kg	0.386	--	1
Chrysene	ND		mg/kg	0.386	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.386	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.386	--	1
Benzo(a)pyrene	ND		mg/kg	0.386	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.386	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.386	--	1
Benzo(ghi)perylene	ND		mg/kg	0.386	--	1



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-07

Date Collected: 03/12/25 14:00

Client ID: MW-5 (10-11)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	76		40-140
2-Fluorobiphenyl	87		40-140
2-Bromonaphthalene	92		40-140

Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

Method Blank Analysis Batch Quality Control

Analytical Method: 135,EPH-19-2.1
Analytical Date: 03/17/25 09:36
Analyst: CRE

Extraction Method: EPA 3546
Extraction Date: 03/15/25 23:25
Cleanup Method: EPH-19-2.1
Cleanup Date: 03/17/25

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-07 Batch: WG2041017-1					
C9-C18 Aliphatics	ND		mg/kg	6.66	--
C19-C36 Aliphatics	ND		mg/kg	6.66	--
C11-C22 Aromatics	ND		mg/kg	6.66	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.66	--
Naphthalene	ND		mg/kg	0.333	--
2-Methylnaphthalene	ND		mg/kg	0.333	--
Acenaphthylene	ND		mg/kg	0.333	--
Acenaphthene	ND		mg/kg	0.333	--
Fluorene	ND		mg/kg	0.333	--
Phenanthrene	ND		mg/kg	0.333	--
Anthracene	ND		mg/kg	0.333	--
Fluoranthene	ND		mg/kg	0.333	--
Pyrene	ND		mg/kg	0.333	--
Benzo(a)anthracene	ND		mg/kg	0.333	--
Chrysene	ND		mg/kg	0.333	--
Benzo(b)fluoranthene	ND		mg/kg	0.333	--
Benzo(k)fluoranthene	ND		mg/kg	0.333	--
Benzo(a)pyrene	ND		mg/kg	0.333	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.333	--
Dibenzo(a,h)anthracene	ND		mg/kg	0.333	--
Benzo(ghi)perylene	ND		mg/kg	0.333	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	59		40-140
o-Terphenyl	72		40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	89		40-140



Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK

Project Number: 30251964.12

Lab Number: L2514164

Report Date: 03/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-07 Batch: WG2041017-2 WG2041017-3								
C9-C18 Aliphatics	57		53		40-140	7		25
C19-C36 Aliphatics	71		67		40-140	6		25
C11-C22 Aromatics	83		75		40-140	10		25
Naphthalene	68		61		40-140	11		25
2-Methylnaphthalene	71		64		40-140	10		25
Acenaphthylene	73		66		40-140	10		25
Acenaphthene	76		69		40-140	10		25
Fluorene	78		71		40-140	9		25
Phenanthrene	78		71		40-140	9		25
Anthracene	97		86		40-140	12		25
Fluoranthene	82		74		40-140	10		25
Pyrene	80		73		40-140	9		25
Benzo(a)anthracene	83		74		40-140	11		25
Chrysene	81		71		40-140	13		25
Benzo(b)fluoranthene	80		72		40-140	11		25
Benzo(k)fluoranthene	80		70		40-140	13		25
Benzo(a)pyrene	94		84		40-140	11		25
Indeno(1,2,3-cd)Pyrene	80		72		40-140	11		25
Dibenzo(a,h)anthracene	81		70		40-140	15		25
Benzo(ghi)perylene	74		65		40-140	13		25

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK

Project Number: 30251964.12

Lab Number: L2514164

Report Date: 03/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-07 Batch: WG2041017-2 WG2041017-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	60		57		40-140
o-Terphenyl	78		71		40-140
2-Fluorobiphenyl	83		84		40-140
2-Bromonaphthalene	87		88		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

PCBS

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-01
 Client ID: MW-6 (0-1)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 08:25
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 03/16/25 18:34
 Analyst: EMR
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 03/16/25 01:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/16/25
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/16/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.8	--	1	A
Aroclor 1221	ND		ug/kg	51.8	--	1	A
Aroclor 1232	ND		ug/kg	51.8	--	1	A
Aroclor 1242	ND		ug/kg	51.8	--	1	A
Aroclor 1248	ND		ug/kg	51.8	--	1	A
Aroclor 1254	ND		ug/kg	51.8	--	1	A
Aroclor 1260	ND		ug/kg	51.8	--	1	A
Aroclor 1262	ND		ug/kg	51.8	--	1	A
Aroclor 1268	ND		ug/kg	51.8	--	1	A
PCBs, Total	ND		ug/kg	51.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-02
 Client ID: MW-6 (0-4)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 08:40
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 03/16/25 18:43
 Analyst: EMR
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 03/16/25 01:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/16/25
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/16/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	50.6	--	1	A
Aroclor 1221	ND		ug/kg	50.6	--	1	A
Aroclor 1232	ND		ug/kg	50.6	--	1	A
Aroclor 1242	ND		ug/kg	50.6	--	1	A
Aroclor 1248	ND		ug/kg	50.6	--	1	A
Aroclor 1254	ND		ug/kg	50.6	--	1	A
Aroclor 1260	ND		ug/kg	50.6	--	1	A
Aroclor 1262	ND		ug/kg	50.6	--	1	A
Aroclor 1268	ND		ug/kg	50.6	--	1	A
PCBs, Total	ND		ug/kg	50.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-03
 Client ID: MW-3 (0-3)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 11:00
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 03/16/25 18:51
 Analyst: EMR
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 03/16/25 01:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/16/25
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/16/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	50.8	--	1	A
Aroclor 1221	ND		ug/kg	50.8	--	1	A
Aroclor 1232	ND		ug/kg	50.8	--	1	A
Aroclor 1242	ND		ug/kg	50.8	--	1	A
Aroclor 1248	ND		ug/kg	50.8	--	1	A
Aroclor 1254	ND		ug/kg	50.8	--	1	A
Aroclor 1260	ND		ug/kg	50.8	--	1	A
Aroclor 1262	ND		ug/kg	50.8	--	1	A
Aroclor 1268	ND		ug/kg	50.8	--	1	A
PCBs, Total	ND		ug/kg	50.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-04
 Client ID: MW-4 (0-3)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 11:50
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 03/16/25 18:59
 Analyst: EMR
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 03/16/25 01:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/16/25
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/16/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.5	--	1	A
Aroclor 1221	ND		ug/kg	58.5	--	1	A
Aroclor 1232	ND		ug/kg	58.5	--	1	A
Aroclor 1242	ND		ug/kg	58.5	--	1	A
Aroclor 1248	ND		ug/kg	58.5	--	1	A
Aroclor 1254	ND		ug/kg	58.5	--	1	A
Aroclor 1260	ND		ug/kg	58.5	--	1	A
Aroclor 1262	ND		ug/kg	58.5	--	1	A
Aroclor 1268	ND		ug/kg	58.5	--	1	A
PCBs, Total	ND		ug/kg	58.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-05
 Client ID: MW-2 (0-3)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 13:10
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 03/16/25 19:07
 Analyst: EMR
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 03/16/25 01:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/16/25
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/16/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.1	--	1	A
Aroclor 1221	ND		ug/kg	51.1	--	1	A
Aroclor 1232	ND		ug/kg	51.1	--	1	A
Aroclor 1242	ND		ug/kg	51.1	--	1	A
Aroclor 1248	ND		ug/kg	51.1	--	1	A
Aroclor 1254	ND		ug/kg	51.1	--	1	A
Aroclor 1260	ND		ug/kg	51.1	--	1	A
Aroclor 1262	ND		ug/kg	51.1	--	1	A
Aroclor 1268	ND		ug/kg	51.1	--	1	A
PCBs, Total	ND		ug/kg	51.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-06
 Client ID: MW-5 (0-3)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 13:55
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 03/16/25 19:16
 Analyst: EMR
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 03/16/25 01:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/16/25
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/16/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.3	--	1	A
Aroclor 1221	ND		ug/kg	51.3	--	1	A
Aroclor 1232	ND		ug/kg	51.3	--	1	A
Aroclor 1242	ND		ug/kg	51.3	--	1	A
Aroclor 1248	ND		ug/kg	51.3	--	1	A
Aroclor 1254	ND		ug/kg	51.3	--	1	A
Aroclor 1260	ND		ug/kg	51.3	--	1	A
Aroclor 1262	ND		ug/kg	51.3	--	1	A
Aroclor 1268	ND		ug/kg	51.3	--	1	A
PCBs, Total	ND		ug/kg	51.3	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-07
 Client ID: MW-5 (10-11)
 Sample Location: 525 GIFFORD ST FALMOUTH, MA

Date Collected: 03/12/25 14:00
 Date Received: 03/12/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 03/16/25 19:24
 Analyst: EMR
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 03/16/25 01:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/16/25
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/16/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.7	--	1	A
Aroclor 1221	ND		ug/kg	57.7	--	1	A
Aroclor 1232	ND		ug/kg	57.7	--	1	A
Aroclor 1242	ND		ug/kg	57.7	--	1	A
Aroclor 1248	ND		ug/kg	57.7	--	1	B
Aroclor 1254	ND		ug/kg	57.7	--	1	B
Aroclor 1260	ND		ug/kg	57.7	--	1	A
Aroclor 1262	ND		ug/kg	57.7	--	1	A
Aroclor 1268	ND		ug/kg	57.7	--	1	A
PCBs, Total	ND		ug/kg	57.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 03/16/25 18:09
 Analyst: EMR

Extraction Method: EPA 3546
 Extraction Date: 03/16/25 01:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/16/25
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/16/25

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-07 Batch: WG2041023-1						
Aroclor 1016	ND		ug/kg	46.0	--	A
Aroclor 1221	ND		ug/kg	46.0	--	A
Aroclor 1232	ND		ug/kg	46.0	--	A
Aroclor 1242	ND		ug/kg	46.0	--	A
Aroclor 1248	ND		ug/kg	46.0	--	A
Aroclor 1254	ND		ug/kg	46.0	--	A
Aroclor 1260	ND		ug/kg	46.0	--	A
Aroclor 1262	ND		ug/kg	46.0	--	A
Aroclor 1268	ND		ug/kg	46.0	--	A
PCBs, Total	ND		ug/kg	46.0	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	77		30-150	B

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK

Project Number: 30251964.12

Lab Number: L2514164

Report Date: 03/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-07 Batch: WG2041023-2 WG2041023-3									
Aroclor 1016	82		80		40-140	2		30	A
Aroclor 1260	84		83		40-140	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		84		30-150	A
Decachlorobiphenyl	78		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		84		30-150	B
Decachlorobiphenyl	77		76		30-150	B

METALS

Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-01

Date Collected: 03/12/25 08:25

Client ID: MW-6 (0-1)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.27	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Arsenic, Total	3.41		mg/kg	0.854	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Barium, Total	35.9		mg/kg	0.854	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.427	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.854	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Chromium, Total	6.67		mg/kg	0.854	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Lead, Total	142		mg/kg	4.27	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Mercury, Total	0.092		mg/kg	0.080	--	1	03/18/25 12:19	03/18/25 18:39	EPA 7471B	97,7471B	CME
Nickel, Total	4.11		mg/kg	2.14	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.27	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.854	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.27	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Vanadium, Total	10.3		mg/kg	0.854	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM
Zinc, Total	108		mg/kg	4.27	--	2	03/18/25 10:42	03/18/25 21:09	EPA 3050B	97,6010D	EFM



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-02

Date Collected: 03/12/25 08:40

Client ID: MW-6 (0-4)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.18	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Arsenic, Total	2.79		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Barium, Total	28.9		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.418	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Chromium, Total	3.17		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Lead, Total	116		mg/kg	4.18	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Mercury, Total	ND		mg/kg	0.082	--	1	03/18/25 12:19	03/18/25 18:42	EPA 7471B	97,7471B	CME
Nickel, Total	2.45		mg/kg	2.09	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.18	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.18	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Vanadium, Total	5.25		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM
Zinc, Total	91.9		mg/kg	4.18	--	2	03/18/25 10:42	03/18/25 21:14	EPA 3050B	97,6010D	EFM



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-03

Date Collected: 03/12/25 11:00

Client ID: MW-3 (0-3)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.18	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Arsenic, Total	2.07		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Barium, Total	12.5		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.418	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Chromium, Total	2.06		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Lead, Total	19.8		mg/kg	4.18	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Mercury, Total	ND		mg/kg	0.079	--	1	03/18/25 12:19	03/18/25 18:46	EPA 7471B	97,7471B	CME
Nickel, Total	ND		mg/kg	2.09	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.18	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.18	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Vanadium, Total	3.77		mg/kg	0.836	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM
Zinc, Total	20.1		mg/kg	4.18	--	2	03/18/25 10:42	03/18/25 21:18	EPA 3050B	97,6010D	EFM



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-04

Date Collected: 03/12/25 11:50

Client ID: MW-4 (0-3)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.96	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Arsenic, Total	9.04		mg/kg	0.993	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Barium, Total	47.9		mg/kg	0.993	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.496	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.993	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Chromium, Total	7.13		mg/kg	0.993	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Lead, Total	116		mg/kg	4.96	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Mercury, Total	ND		mg/kg	0.091	--	1	03/18/25 12:19	03/18/25 18:49	EPA 7471B	97,7471B	CME
Nickel, Total	9.80		mg/kg	2.48	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.96	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.993	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.96	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Vanadium, Total	12.8		mg/kg	0.993	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM
Zinc, Total	237		mg/kg	4.96	--	2	03/18/25 10:42	03/18/25 21:23	EPA 3050B	97,6010D	EFM



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-05

Date Collected: 03/12/25 13:10

Client ID: MW-2 (0-3)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.04	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Arsenic, Total	1.46		mg/kg	0.808	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Barium, Total	9.04		mg/kg	0.808	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.404	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.808	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Chromium, Total	3.16		mg/kg	0.808	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Lead, Total	79.7		mg/kg	4.04	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Mercury, Total	ND		mg/kg	0.079	--	1	03/18/25 12:19	03/18/25 18:52	EPA 7471B	97,7471B	CME
Nickel, Total	2.02		mg/kg	2.02	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.04	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.808	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.04	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Vanadium, Total	6.04		mg/kg	0.808	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM
Zinc, Total	30.5		mg/kg	4.04	--	2	03/18/25 10:42	03/18/25 21:27	EPA 3050B	97,6010D	EFM



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-06

Date Collected: 03/12/25 13:55

Client ID: MW-5 (0-3)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.30	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Arsenic, Total	6.78		mg/kg	0.859	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Barium, Total	103		mg/kg	0.859	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.430	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.859	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Chromium, Total	12.6		mg/kg	0.859	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Lead, Total	87.1		mg/kg	4.30	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Mercury, Total	ND		mg/kg	0.086	--	1	03/18/25 12:19	03/18/25 18:55	EPA 7471B	97,7471B	CME
Nickel, Total	13.1		mg/kg	2.15	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.30	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.859	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.30	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Vanadium, Total	11.1		mg/kg	0.859	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM
Zinc, Total	129		mg/kg	4.30	--	2	03/18/25 10:42	03/18/25 21:32	EPA 3050B	97,6010D	EFM



Project Name: TROTting PARK**Lab Number:** L2514164**Project Number:** 30251964.12**Report Date:** 03/20/25**SAMPLE RESULTS**

Lab ID: L2514164-07

Date Collected: 03/12/25 14:00

Client ID: MW-5 (10-11)

Date Received: 03/12/25

Sample Location: 525 GIFFORD ST FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	4.68	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Arsenic, Total	1.84		mg/kg	0.936	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Barium, Total	17.2		mg/kg	0.936	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.468	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.936	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Chromium, Total	5.22		mg/kg	0.936	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Lead, Total	61.2		mg/kg	4.68	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Mercury, Total	ND		mg/kg	0.094	--	1	03/18/25 12:19	03/18/25 18:59	EPA 7471B	97,7471B	CME
Nickel, Total	12.0		mg/kg	2.34	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Selenium, Total	ND		mg/kg	4.68	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Silver, Total	ND		mg/kg	0.936	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Thallium, Total	ND		mg/kg	4.68	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Vanadium, Total	5.10		mg/kg	0.936	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM
Zinc, Total	68.5		mg/kg	4.68	--	2	03/18/25 10:42	03/18/25 21:36	EPA 3050B	97,6010D	EFM



Project Name: TROTting PARK

Lab Number: L2514164

Project Number: 30251964.12

Report Date: 03/20/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG2041787-1										
Antimony, Total	ND		mg/kg	2.00	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Arsenic, Total	ND		mg/kg	0.400	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Barium, Total	ND		mg/kg	0.400	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Beryllium, Total	ND		mg/kg	0.200	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Cadmium, Total	ND		mg/kg	0.400	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Chromium, Total	ND		mg/kg	0.400	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Lead, Total	ND		mg/kg	2.00	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Nickel, Total	ND		mg/kg	1.00	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Selenium, Total	ND		mg/kg	2.00	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Silver, Total	ND		mg/kg	0.400	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Thallium, Total	ND		mg/kg	2.00	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Vanadium, Total	ND		mg/kg	0.400	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM
Zinc, Total	ND		mg/kg	2.00	--	1	03/18/25 10:42	03/18/25 19:45	97,6010D	EFM

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG2041788-1										
Mercury, Total	ND		mg/kg	0.083	--	1	03/18/25 12:19	03/18/25 17:59	97,7471B	CME

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK

Project Number: 30251964.12

Lab Number: L2514164

Report Date: 03/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG2041787-2 WG2041787-3 SRM Lot Number: D123-540								
Antimony, Total	68		68		2-201	0		30
Arsenic, Total	105		105		82-118	0		30
Barium, Total	109		107		82-118	2		30
Beryllium, Total	108		106		83-117	2		30
Cadmium, Total	108		108		83-118	0		30
Chromium, Total	109		109		81-118	0		30
Lead, Total	109		110		82-119	1		30
Nickel, Total	103		101		82-118	2		30
Selenium, Total	107		108		81-119	1		30
Silver, Total	110		109		79-120	1		30
Thallium, Total	109		108		81-120	1		30
Vanadium, Total	107		108		78-122	1		30
Zinc, Total	105		106		80-120	1		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG2041788-2 WG2041788-3 SRM Lot Number: D123-540								
Mercury, Total	100		104		67-132	4		30

INORGANICS & MISCELLANEOUS

Project Name: TROTting PARK**Project Number:** 30251964.12**Lab Number:** L2514164**Report Date:** 03/20/25**SAMPLE RESULTS****Lab ID:** L2514164-01**Client ID:** MW-6 (0-1)**Sample Location:** 525 GIFFORD ST FALMOUTH, MA**Date Collected:** 03/12/25 08:25**Date Received:** 03/12/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	03/13/25 10:15	121,2540G	ROI



Project Name: TROTting PARK**Project Number:** 30251964.12**Lab Number:** L2514164**Report Date:** 03/20/25**SAMPLE RESULTS****Lab ID:** L2514164-02**Client ID:** MW-6 (0-4)**Sample Location:** 525 GIFFORD ST FALMOUTH, MA**Date Collected:** 03/12/25 08:40**Date Received:** 03/12/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	03/13/25 10:15	121,2540G	ROI



Project Name: TROTting PARK**Project Number:** 30251964.12**Lab Number:** L2514164**Report Date:** 03/20/25**SAMPLE RESULTS****Lab ID:** L2514164-03**Client ID:** MW-3 (0-3)**Sample Location:** 525 GIFFORD ST FALMOUTH, MA**Date Collected:** 03/12/25 11:00**Date Received:** 03/12/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	03/13/25 10:15	121,2540G	ROI



Project Name: TROTting PARK**Project Number:** 30251964.12**Lab Number:** L2514164**Report Date:** 03/20/25**SAMPLE RESULTS****Lab ID:** L2514164-04**Client ID:** MW-4 (0-3)**Sample Location:** 525 GIFFORD ST FALMOUTH, MA**Date Collected:** 03/12/25 11:50**Date Received:** 03/12/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.1		%	0.100	NA	1	-	03/13/25 10:15	121,2540G	ROI



Project Name: TROTting PARK**Project Number:** 30251964.12**Lab Number:** L2514164**Report Date:** 03/20/25**SAMPLE RESULTS****Lab ID:** L2514164-05**Client ID:** MW-2 (0-3)**Sample Location:** 525 GIFFORD ST FALMOUTH, MA**Date Collected:** 03/12/25 13:10**Date Received:** 03/12/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	03/13/25 10:15	121,2540G	ROI



Project Name: TROTting PARK**Project Number:** 30251964.12**Lab Number:** L2514164**Report Date:** 03/20/25**SAMPLE RESULTS****Lab ID:** L2514164-06**Client ID:** MW-5 (0-3)**Sample Location:** 525 GIFFORD ST FALMOUTH, MA**Date Collected:** 03/12/25 13:55**Date Received:** 03/12/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	03/13/25 10:15	121,2540G	ROI



Project Name: TROTting PARK**Project Number:** 30251964.12**Lab Number:** L2514164**Report Date:** 03/20/25**SAMPLE RESULTS****Lab ID:** L2514164-07**Client ID:** MW-5 (10-11)**Sample Location:** 525 GIFFORD ST FALMOUTH, MA**Date Collected:** 03/12/25 14:00**Date Received:** 03/12/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	03/13/25 10:15	121,2540G	ROI



Project Name: TROTting PARK
Project Number: 30251964.12

Serial_No:03202517:33
Lab Number: L2514164
Report Date: 03/20/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2514164-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2514164-01B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14),TS(7)
L2514164-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2514164-02B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14),TS(7)
L2514164-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2514164-03B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14),TS(7)

Project Name: TROTting PARK
Project Number: 30251964.12

Serial_No: 03202517:33
Lab Number: L2514164
Report Date: 03/20/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2514164-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2514164-04B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14),TS(7)
L2514164-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2514164-05B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14),TS(7)
L2514164-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2514164-06B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14),TS(7)
L2514164-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2514164-07B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		MCP-8082-10(365),EPH-DELUX-20(14)
L2514164-07C	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)

Project Name: TROTting PARK
Project Number: 30251964.12

Serial_No:03202517:33
Lab Number: L2514164
Report Date: 03/20/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2514164-07D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2514164-07E	Vial MeOH preserved	A	NA		2.7	Y	Absent		MCP-8260HLW-21(14)
L2514164-07F	Vial water preserved	A	NA		2.7	Y	Absent	12-MAR-25 20:17	MCP-8260HLW-21(14)
L2514164-07G	Vial water preserved	A	NA		2.7	Y	Absent	12-MAR-25 20:17	MCP-8260HLW-21(14)

Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TROTting PARK
Project Number: 30251964.12

Lab Number: L2514164
Report Date: 03/20/25

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSCCAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010; WSC-CAM-IIIA and IIID, January 2024; WSC-CAM-IIIB and VA, February 2024; WSC-CAM-VB and VC, April 2024; and WSC-CAM-VIA, VIB, IXA, and IXB, October 2024.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 135 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, December 2019, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, March 1, 2020.
- 141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

Pace Analytical Services LLCID No.: **17873**Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: Certificate/Approval Program Summary

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Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Method Blank Summary Form 4 Volatiles

Client	: Arcadis U.S., Inc.	Lab Number	: L2514164
Project Name	: TROTting PARK	Project Number	: 30251964.12
Lab Sample ID	: WG2043102-5	Lab File ID	: V04250320A05
Instrument ID	: VOA104		
Matrix	: SOIL	Analysis Date	: 03/20/25 09:40

Client Sample No.	Lab Sample ID	Analysis Date
WG2043102-3LCS	WG2043102-3	03/20/25 07:56
WG2043102-4LCSD	WG2043102-4	03/20/25 08:22
MW-5 (10-11)	L2514164-07	03/20/25 10:32
MW-5 (10-11)	L2514164-07D	03/20/25 10:58

Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis U.S., Inc.
 Project Name : TROTting PARK
 Instrument ID : VOA104
 Lab File ID : V04250320A01
 Sample No : WG2043102-2
 Channel :

Lab Number : L2514164
 Project Number : 30251964.12
 Calibration Date : 03/20/25 07:56
 Init. Calib. Date(s) : 12/20/24 12/20/24
 Init. Calib. Times : 07:44 12:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	142	0
Dichlorodifluoromethane	0.347	0.345	-	0.6	20	145	0
Chloromethane	0.293	0.428	-	-46.1*	20	216	0
Vinyl chloride	0.34	0.362	-	-6.5	20	152	0
Bromomethane	0.228	0.214	-	6.1	20	139	0
Chloroethane	0.206	0.185	-	10.2	20	124	-.01
Trichlorofluoromethane	0.53	0.447	-	15.7	20	116	0
Ethyl ether	0.124	0.122	-	1.6	20	141	0
1,1-Dichloroethene	0.287	0.252	-	12.2	20	130	0
Carbon disulfide	0.936	0.865	-	7.6	20	134	0
Freon-113	0.308	0.275	-	10.7	20	123	0
Acrolein	0.028	0.033	-	-17.9	20	169	0
Methylene chloride	0.33	0.279	-	15.5	20	128	-.01
Acetone	0.062	0.059	-	4.8	20	150	0
trans-1,2-Dichloroethene	0.309	0.276	-	10.7	20	130	-.01
Methyl acetate	0.093	0.12	-	-29*	20	186	0
Methyl tert-butyl ether	0.729	0.689	-	5.5	20	138	0
tert-Butyl alcohol	0.022	0.024	-	-9.1	20	161	0
Diisopropyl ether	0.795	1.017	-	-27.9*	20	183	-.01
1,1-Dichloroethane	0.54	0.541	-	-0.2	20	140	-.01
Halothane	0.252	0.225	-	10.7	20	124	0
Acrylonitrile	0.045	0.061	-	-35.6*	20	181	0
Ethyl tert-butyl ether	0.822	0.938	-	-14.1	20	160	0
Vinyl acetate	0.414	0.569	-	-37.4*	20	186	0
cis-1,2-Dichloroethene	0.343	0.287	-	16.3	20	125	0
2,2-Dichloropropane	0.509	0.411	-	19.3	20	117	0
Bromochloromethane	0.158	0.147	-	7	20	130	0
Cyclohexane	0.428	0.486	-	-13.6	20	161	0
Chloroform	0.557	0.465	-	16.5	20	118	0
Ethyl acetate	0.148	0.193	-	-30.4*	20	176	0
Carbon tetrachloride	0.485	0.403	-	16.9	20	116	0
Tetrahydrofuran	0.045	0.066	-	-46.7*	20	210	0
Dibromofluoromethane	0.314	0.287	-	8.6	20	130	0
1,1,1-Trichloroethane	0.51	0.409	-	19.8	20	115	0
2-Butanone	0.062	0.08	-	-29*	20	169	0
1,1-Dichloropropene	0.374	0.31	-	17.1	20	113	0
Benzene	1.105	0.928	-	16	20	118	0
tert-Amyl methyl ether	0.757	0.656	-	13.3	20	127	0
1,2-Dichloroethane-d4	0.271	0.243	-	10.3	20	131	0
1,2-Dichloroethane	0.364	0.343	-	5.8	20	135	0
Methyl cyclohexane	0.507	0.391	-	22.9*	20	114	0
Trichloroethene	0.306	0.27	-	11.8	20	119	0
Dibromomethane	0.191	0.149	-	22*	20	115	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis U.S., Inc.
 Project Name : TROTting PARK
 Instrument ID : VOA104
 Lab File ID : V04250320A01
 Sample No : WG2043102-2
 Channel :

Lab Number : L2514164
 Project Number : 30251964.12
 Calibration Date : 03/20/25 07:56
 Init. Calib. Date(s) : 12/20/24 12/20/24
 Init. Calib. Times : 07:44 12:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.288	0.279	-	3.1	20	140	0
2-Chloroethyl vinyl ether	0.144	0.142	-	1.4	20	135	0
Bromodichloromethane	0.455	0.352	-	22.6*	20	114	0
1,4-Dioxane	0.00166	0.00187*	-	-12.7	20	146	0
cis-1,3-Dichloropropene	0.46	0.403	-	12.4	20	119	0
Chlorobenzene-d5	1	1	-	0	20	143	0
Toluene-d8	1.431	1.276	-	10.8	20	127	0
Toluene	0.952	0.767	-	19.4	20	116	0
4-Methyl-2-pentanone	0.09	0.101	-	-12.2	20	162	0
Tetrachloroethene	0.417	0.376	-	9.8	20	123	0
trans-1,3-Dichloropropene	0.516	0.437	-	15.3	20	117	0
Ethyl methacrylate	0.331	0.304	-	8.2	20	127	0
1,1,2-Trichloroethane	0.257	0.211	-	17.9	20	118	0
Chlorodibromomethane	0.453	0.372	-	17.9	20	120	0
1,3-Dichloropropane	0.477	0.409	-	14.3	20	121	0
1,2-Dibromoethane	0.306	0.272	-	11.1	20	123	0
2-Hexanone	0.137	0.162	-	-18.2	20	166	0
Chlorobenzene	1.079	0.918	-	14.9	20	123	0
Ethylbenzene	1.811	1.501	-	17.1	20	117	0
1,1,1,2-Tetrachloroethane	0.418	0.359	-	14.1	20	121	0
p/m Xylene	0.672	0.572	-	14.9	20	119	0
o Xylene	0.671	0.573	-	14.6	20	120	0
Styrene	1.08	0.947	-	12.3	20	123	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	137	0
Bromoform	0.491	0.409	-	16.7	20	113	0
Isopropylbenzene	3.347	2.87	-	14.3	20	117	0
4-Bromofluorobenzene	0.985	0.894	-	9.2	20	126	0
Bromobenzene	0.866	0.79	-	8.8	20	124	0
n-Propylbenzene	3.86	3.301	-	14.5	20	119	0
1,4-Dichlorobutane	0.76	0.868	-	-14.2	20	160	0
1,1,2,2-Tetrachloroethane	0.704	0.573	-	18.6	20	115	0
4-Ethyltoluene	3.132	2.807	-	10.4	20	123	0
2-Chlorotoluene	2.226	1.943	-	12.7	20	118	0
1,3,5-Trimethylbenzene	2.851	2.395	-	16	20	117	0
1,2,3-Trichloropropane	0.5	0.411	-	17.8	20	116	0
trans-1,4-Dichloro-2-buten	0.185	0.183	-	1.1	20	147	0
4-Chlorotoluene	2.247	1.999	-	11	20	123	0
tert-Butylbenzene	2.383	2.073	-	13	20	119	0
1,2,4-Trimethylbenzene	2.746	2.345	-	14.6	20	119	0
sec-Butylbenzene	3.618	3.033	-	16.2	20	116	0
p-Isopropyltoluene	2.937	2.695	-	8.2	20	126	0
1,3-Dichlorobenzene	1.537	1.466	-	4.6	20	131	0
1,4-Dichlorobenzene	1.59	1.471	-	7.5	20	131	0

* Value outside of QC limits.

Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis U.S., Inc.
 Project Name : TROTting PARK
 Instrument ID : VOA104
 Lab File ID : V04250320A01
 Sample No : WG2043102-2
 Channel :

Lab Number : L2514164
 Project Number : 30251964.12
 Calibration Date : 03/20/25 07:56
 Init. Calib. Date(s) : 12/20/24 12/20/24
 Init. Calib. Times : 07:44 12:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.674	1.591	-	5	20	132	0
n-Butylbenzene	2.4	2.19	-	8.8	20	125	0
1,2-Dichlorobenzene	1.479	1.368	-	7.5	20	128	0
1,2,4,5-Tetramethylbenzene	2.454	2.629	-	-7.1	20	148	0
1,2-Dibromo-3-chloropropan	0.112	0.096	-	14.3	20	112	0
1,3,5-Trichlorobenzene	1.111	1.068	-	3.9	20	131	0
Hexachlorobutadiene	0.616	0.524	-	14.9	20	115	0
1,2,4-Trichlorobenzene	0.896	0.909	-	-1.5	20	136	0
Naphthalene	1.599	1.742	-	-8.9	20	151	0
1,2,3-Trichlorobenzene	0.791	0.767	-	3	20	130	0

* Value outside of QC limits.





ANALYTICAL REPORT

Lab Number:	L2516949
Client:	Arcadis G&M, Inc. 500 Edgewater Drive Suite 511 Wakefield, MA 01880
ATTN:	Jim Luker
Phone:	(999) 999-9999
Project Name:	TROTting PARK FIELDS
Project Number:	30251764.11
Report Date:	04/01/25

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2516949-01	IRRIG-1	WATER	525 GIFFORD STREET FALMOUTH MA	03/21/25 08:30	03/21/25
L2516949-02	MW-6	WATER	525 GIFFORD STREET FALMOUTH MA	03/21/25 11:00	03/21/25
L2516949-03	MW-1	WATER	525 GIFFORD STREET FALMOUTH MA	03/21/25 13:30	03/21/25
L2516949-04	MW-2	WATER	525 GIFFORD STREET FALMOUTH MA	03/21/25 16:00	03/21/25

Project Name: TROTting PARK FIELDS

Lab Number: L2516949

Project Number: 30251764.11

Report Date: 04/01/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is 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
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
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
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
E 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).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
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
A response to questions G, H and I is 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
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

The analyses performed were specified by the client.

L2516949-02: The collection date and time on the chain of custody was 21-MAR-25 11:00; however, the collection date/time on the container label was 21-MAR-25 13:30. At the client's request, the collection date/time is reported as 21-MAR-25 11:00.

L2516949-03: The collection date and time on the chain of custody was 21-MAR-25 13:30; however, the collection date/time on the container label was 21-MAR-25 11:00. At the client's request, the collection date/time is reported as 21-MAR-25 13:30.

L2516949-04: The Client ID was specified by the client.

Volatile Organics

L2516949-01, -03, and -04: Initial calibration utilized a quadratic fit for: trans-1,3-dichloropropene, cis-1,3-dichloropropene

In reference to question H:

L2516949-01, -03, and -04: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,1-dichloroethane (0.2633), cis-1,2-dichloroethene (0.1736), bromochloromethane (0.0831), chloroform (0.2722), 1,2-dichloropropane (0.1227), bromodichloromethane (0.2518), 1,4-dioxane (0.0006), 4-methyl-2-pentanone (0.0235), 1,1,2-trichloroethane (0.1173), chlorodibromomethane (0.1843), 1,2-dibromoethane (0.1316), 1,2,3-trichlorobenzene (0.384)

Average Response Factor: cis-1,2-dichloroethene, bromochloromethane, 1,2-dichloropropane, bromodichloromethane, 1,4-dioxane, 1,1,2-trichloroethane, 1,2-dibromoethane

L2516949-02: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0019)

Average Response Factor: 1,4-dioxane

Verification: dichlorodifluoromethane (136%)

Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

Case Narrative (continued)

L2516949-01, -02, -03, and -04: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kelly O'Neill

Title: Technical Director/Representative

Date: 04/01/25

QC OUTLIER SUMMARY REPORT

Project Name: TROTting PARK FIELDS

Lab Number: L2516949

Project Number: 30251764.11

Report Date: 04/01/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

ORGANICS

VOLATILES

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-01
 Client ID: IRRIG-1
 Sample Location: 525 GIFFORD STREET FALMOUTH MA

Date Collected: 03/21/25 08:30
 Date Received: 03/21/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 141,8260D
 Analytical Date: 03/28/25 10:32
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-01

Date Collected: 03/21/25 08:30

Client ID: IRRIG-1

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS****Lab ID:** L2516949-01**Date Collected:** 03/21/25 08:30**Client ID:** IRRIG-1**Date Received:** 03/21/25**Sample Location:** 525 GIFFORD STREET FALMOUTH MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-02
 Client ID: MW-6
 Sample Location: 525 GIFFORD STREET FALMOUTH MA

Date Collected: 03/21/25 11:00
 Date Received: 03/21/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 141,8260D
 Analytical Date: 03/29/25 14:34
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	1.7		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-02

Date Collected: 03/21/25 11:00

Client ID: MW-6

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS****Lab ID:** L2516949-02**Date Collected:** 03/21/25 11:00**Client ID:** MW-6**Date Received:** 03/21/25**Sample Location:** 525 GIFFORD STREET FALMOUTH MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	113		70-130

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-03
 Client ID: MW-1
 Sample Location: 525 GIFFORD STREET FALMOUTH MA

Date Collected: 03/21/25 13:30
 Date Received: 03/21/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 141,8260D
 Analytical Date: 03/28/25 10:55
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	3.7		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-03

Date Collected: 03/21/25 13:30

Client ID: MW-1

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-03

Date Collected: 03/21/25 13:30

Client ID: MW-1

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-04
 Client ID: MW-2
 Sample Location: 525 GIFFORD STREET FALMOUTH MA

Date Collected: 03/21/25 16:00
 Date Received: 03/21/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 141,8260D
 Analytical Date: 03/28/25 11:19
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	27		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-04

Date Collected: 03/21/25 16:00

Client ID: MW-2

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	1.3		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-04

Date Collected: 03/21/25 16:00

Client ID: MW-2

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/28/25 05:00
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-04 Batch: WG2046493-5					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--



Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/28/25 05:00
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-04 Batch: WG2046493-5					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
Methyl ethyl ketone	ND		ug/l	5.0	--
Methyl isobutyl ketone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--



Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 03/28/25 05:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-04 Batch: WG2046493-5					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Diethyl ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/29/25 05:40
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02 Batch: WG2047245-5					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--



Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/29/25 05:40
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02 Batch: WG2047245-5					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
Methyl ethyl ketone	ND		ug/l	5.0	--
Methyl isobutyl ketone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--



Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/29/25 05:40
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02 Batch: WG2047245-5					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Diethyl ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	107		70-130



Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Lab Number: L2516949

Project Number: 30251764.11

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG2046493-3 WG2046493-4								
Methylene chloride	89		90		70-130	1		20
1,1-Dichloroethane	97		97		70-130	0		20
Chloroform	92		94		70-130	2		20
Carbon tetrachloride	93		110		70-130	17		20
1,2-Dichloropropane	96		98		70-130	2		20
Dibromochloromethane	99		94		70-130	5		20
1,1,2-Trichloroethane	100		97		70-130	3		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	100		93		70-130	7		20
Trichlorofluoromethane	95		96		70-130	1		20
1,2-Dichloroethane	94		100		70-130	6		20
1,1,1-Trichloroethane	94		96		70-130	2		20
Bromodichloromethane	89		93		70-130	4		20
trans-1,3-Dichloropropene	92		87		70-130	6		20
cis-1,3-Dichloropropene	83		86		70-130	4		20
1,1-Dichloropropene	94		95		70-130	1		20
Bromoform	92		100		70-130	8		20
1,1,2,2-Tetrachloroethane	86		96		70-130	11		20
Benzene	94		95		70-130	1		20
Toluene	100		94		70-130	6		20
Ethylbenzene	100		94		70-130	6		20
Chloromethane	100		100		70-130	0		20
Bromomethane	75		72		70-130	4		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Lab Number: L2516949

Project Number: 30251764.11

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG2046493-3 WG2046493-4								
Vinyl chloride	79		78		70-130	1		20
Chloroethane	75		73		70-130	3		20
1,1-Dichloroethene	94		94		70-130	0		20
trans-1,2-Dichloroethene	92		94		70-130	2		20
Trichloroethene	88		91		70-130	3		20
1,2-Dichlorobenzene	93		97		70-130	4		20
1,3-Dichlorobenzene	94		94		70-130	0		20
1,4-Dichlorobenzene	93		97		70-130	4		20
Methyl tert butyl ether	89		94		70-130	5		20
p/m-Xylene	100		90		70-130	11		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	88		90		70-130	2		20
Dibromomethane	89		92		70-130	3		20
1,2,3-Trichloropropane	88		98		70-130	11		20
Styrene	100		90		70-130	11		20
Dichlorodifluoromethane	81		83		70-130	2		20
Acetone	100		120		70-130	18		20
Carbon disulfide	94		94		70-130	0		20
Methyl ethyl ketone	120		130		70-130	8		20
Methyl isobutyl ketone	88		91		70-130	3		20
2-Hexanone	100		100		70-130	0		20
Bromochloromethane	90		92		70-130	2		20
Tetrahydrofuran	110		120		70-130	9		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Lab Number: L2516949

Project Number: 30251764.11

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG2046493-3 WG2046493-4								
2,2-Dichloropropane	95		95		70-130	0		20
1,2-Dibromoethane	98		95		70-130	3		20
1,3-Dichloropropane	100		98		70-130	2		20
1,1,1,2-Tetrachloroethane	100		94		70-130	6		20
Bromobenzene	94		97		70-130	3		20
n-Butylbenzene	89		93		70-130	4		20
sec-Butylbenzene	93		96		70-130	3		20
tert-Butylbenzene	90		94		70-130	4		20
o-Chlorotoluene	92		95		70-130	3		20
p-Chlorotoluene	92		95		70-130	3		20
1,2-Dibromo-3-chloropropane	92		100		70-130	8		20
Hexachlorobutadiene	100		100		70-130	0		20
Isopropylbenzene	86		89		70-130	3		20
p-Isopropyltoluene	93		97		70-130	4		20
Naphthalene	80		90		70-130	12		20
n-Propylbenzene	92		96		70-130	4		20
1,2,3-Trichlorobenzene	94		100		70-130	6		20
1,2,4-Trichlorobenzene	89		95		70-130	7		20
1,3,5-Trimethylbenzene	92		95		70-130	3		20
1,2,4-Trimethylbenzene	91		94		70-130	3		20
Diethyl ether	89		94		70-130	5		20
Diisopropyl Ether	100		100		70-130	0		20
Ethyl-Tert-Butyl-Ether	91		96		70-130	5		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Lab Number: L2516949

Project Number: 30251764.11

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-04 Batch: WG2046493-3 WG2046493-4								
Tertiary-Amyl Methyl Ether	82		88		70-130	7		20
1,4-Dioxane	104		92		70-130	12		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		108		70-130
Toluene-d8	113		102		70-130
4-Bromofluorobenzene	98		100		70-130
Dibromofluoromethane	98		99		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251764.11

Lab Number: L2516949

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG2047245-3 WG2047245-4								
Methylene chloride	97		98		70-130	1		20
1,1-Dichloroethane	96		97		70-130	1		20
Chloroform	95		92		70-130	3		20
Carbon tetrachloride	97		98		70-130	1		20
1,2-Dichloropropane	93		93		70-130	0		20
Dibromochloromethane	85		85		70-130	0		20
1,1,2-Trichloroethane	90		87		70-130	3		20
Tetrachloroethene	86		88		70-130	2		20
Chlorobenzene	90		90		70-130	0		20
Trichlorofluoromethane	97		95		70-130	2		20
1,2-Dichloroethane	94		93		70-130	1		20
1,1,1-Trichloroethane	96		94		70-130	2		20
Bromodichloromethane	88		94		70-130	7		20
trans-1,3-Dichloropropene	87		87		70-130	0		20
cis-1,3-Dichloropropene	92		90		70-130	2		20
1,1-Dichloropropene	94		94		70-130	0		20
Bromoform	85		86		70-130	1		20
1,1,2,2-Tetrachloroethane	89		90		70-130	1		20
Benzene	95		92		70-130	3		20
Toluene	90		90		70-130	0		20
Ethylbenzene	91		89		70-130	2		20
Chloromethane	92		89		70-130	3		20
Bromomethane	82		80		70-130	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251764.11

Lab Number: L2516949

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG2047245-3 WG2047245-4								
Vinyl chloride	110		110		70-130	0		20
Chloroethane	120		120		70-130	0		20
1,1-Dichloroethene	97		95		70-130	2		20
trans-1,2-Dichloroethene	98		98		70-130	0		20
Trichloroethene	92		91		70-130	1		20
1,2-Dichlorobenzene	90		91		70-130	1		20
1,3-Dichlorobenzene	89		92		70-130	3		20
1,4-Dichlorobenzene	91		92		70-130	1		20
Methyl tert butyl ether	89		86		70-130	3		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	99		94		70-130	5		20
Dibromomethane	94		93		70-130	1		20
1,2,3-Trichloropropane	89		90		70-130	1		20
Styrene	90		85		70-130	6		20
Dichlorodifluoromethane	91		90		70-130	1		20
Acetone	87		95		70-130	9		20
Carbon disulfide	99		99		70-130	0		20
Methyl ethyl ketone	81		80		70-130	1		20
Methyl isobutyl ketone	81		78		70-130	4		20
2-Hexanone	78		81		70-130	4		20
Bromochloromethane	100		98		70-130	2		20
Tetrahydrofuran	88		88		70-130	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251764.11

Lab Number: L2516949

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG2047245-3 WG2047245-4								
2,2-Dichloropropane	93		91		70-130	2		20
1,2-Dibromoethane	89		88		70-130	1		20
1,3-Dichloropropane	90		88		70-130	2		20
1,1,1,2-Tetrachloroethane	86		85		70-130	1		20
Bromobenzene	90		90		70-130	0		20
n-Butylbenzene	94		94		70-130	0		20
sec-Butylbenzene	92		93		70-130	1		20
tert-Butylbenzene	91		91		70-130	0		20
o-Chlorotoluene	92		92		70-130	0		20
p-Chlorotoluene	91		93		70-130	2		20
1,2-Dibromo-3-chloropropane	84		82		70-130	2		20
Hexachlorobutadiene	82		86		70-130	5		20
Isopropylbenzene	91		93		70-130	2		20
p-Isopropyltoluene	92		91		70-130	1		20
Naphthalene	87		89		70-130	2		20
n-Propylbenzene	92		94		70-130	2		20
1,2,3-Trichlorobenzene	87		90		70-130	3		20
1,2,4-Trichlorobenzene	87		86		70-130	1		20
1,3,5-Trimethylbenzene	90		92		70-130	2		20
1,2,4-Trimethylbenzene	90		92		70-130	2		20
Diethyl ether	94		91		70-130	3		20
Diisopropyl Ether	90		87		70-130	3		20
Ethyl-Tert-Butyl-Ether	86		82		70-130	5		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Lab Number: L2516949

Project Number: 30251764.11

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG2047245-3 WG2047245-4								
Tertiary-Amyl Methyl Ether	84		82		70-130	2		20
1,4-Dioxane	82		90		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	105		103		70-130

PETROLEUM HYDROCARBONS

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-01

Date Collected: 03/21/25 08:30

Client ID: IRRIG-1

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 135,EPH-19-2.1

Extraction Date: 03/25/25 23:43

Analytical Date: 03/27/25 13:47

M.S. Analytical Date: 03/27/25 14:26

Cleanup Method1: EPH-19-2.1

Analyst: MTC

M.S. Analyst: RP

Cleanup Date1: 03/27/25

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/Targets via GCMS-SIM - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-01

Date Collected: 03/21/25 08:30

Client ID: IRRIG-1

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/Targets via GCMS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	64		40-140
o-Terphenyl	70		40-140
2-Fluorobiphenyl	73		40-140
2-Bromonaphthalene	76		40-140
O-Terphenyl-MS	78		40-140

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-02

Date Collected: 03/21/25 11:00

Client ID: MW-6

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 135,EPH-19-2.1

Extraction Date: 03/25/25 23:43

Analytical Date: 03/27/25 14:12

M.S. Analytical Date: 03/27/25 14:42

Cleanup Method1: EPH-19-2.1

Analyst: MTC

M.S. Analyst: RP

Cleanup Date1: 03/27/25

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/Targets via GCMS-SIM - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-02

Date Collected: 03/21/25 11:00

Client ID: MW-6

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/Targets via GCMS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	70		40-140
2-Bromonaphthalene	72		40-140
O-Terphenyl-MS	76		40-140

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-03

Date Collected: 03/21/25 13:30

Client ID: MW-1

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 135,EPH-19-2.1

Extraction Date: 03/25/25 23:43

Analytical Date: 03/27/25 14:36

M.S. Analytical Date: 03/27/25 14:58

Cleanup Method1: EPH-19-2.1

Analyst: MTC

M.S. Analyst: RP

Cleanup Date1: 03/27/25

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/Targets via GCMS-SIM - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-03

Date Collected: 03/21/25 13:30

Client ID: MW-1

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/Targets via GCMS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	60		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	73		40-140
2-Bromonaphthalene	73		40-140
O-Terphenyl-MS	79		40-140

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-04

Date Collected: 03/21/25 16:00

Client ID: MW-2

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 135,EPH-19-2.1

Extraction Date: 03/25/25 23:43

Analytical Date: 03/27/25 15:01

M.S. Analytical Date: 03/27/25 15:15

Cleanup Method1: EPH-19-2.1

Analyst: MTC

M.S. Analyst: RP

Cleanup Date1: 03/27/25

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/Targets via GCMS-SIM - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-04

Date Collected: 03/21/25 16:00

Client ID: MW-2

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/Targets via GCMS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	64		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	70		40-140
2-Bromonaphthalene	72		40-140
O-Terphenyl-MS	77		40-140

Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

Method Blank Analysis Batch Quality Control

Analytical Method: 135,EPH-19-2.1
 Analytical Date: 03/27/25 12:32
 Analyst: MTC

M.S. Analytical Date: 03/27/25 11:59
 M.S. Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 03/25/25 23:43
 Cleanup Method: EPH-19-2.1
 Cleanup Date: 03/27/25

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/Targets via GCMS-SIM - Westborough Lab for sample(s): 01-04 Batch: WG2045157-1					
C9-C18 Aliphatics	ND		ug/l	100	--
C19-C36 Aliphatics	ND		ug/l	100	--
C11-C22 Aromatics	ND		ug/l	100	--
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--
Naphthalene	ND		ug/l	0.400	--
2-Methylnaphthalene	ND		ug/l	0.400	--
Acenaphthylene	ND		ug/l	0.400	--
Acenaphthene	ND		ug/l	0.400	--
Fluorene	ND		ug/l	0.400	--
Phenanthrene	ND		ug/l	0.400	--
Anthracene	ND		ug/l	0.400	--
Fluoranthene	ND		ug/l	0.400	--
Pyrene	ND		ug/l	0.400	--
Benzo(a)anthracene	ND		ug/l	0.400	--
Chrysene	ND		ug/l	0.400	--
Benzo(b)fluoranthene	ND		ug/l	0.400	--
Benzo(k)fluoranthene	ND		ug/l	0.400	--
Benzo(a)pyrene	ND		ug/l	0.200	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--
Benzo(ghi)perylene	ND		ug/l	0.400	--

Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 135,EPH-19-2.1
Analytical Date: 03/27/25 12:32
Analyst: MTC

M.S. Analytical Date: 03/27/25 11:59
M.S. Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/25/25 23:43
Cleanup Method: EPH-19-2.1
Cleanup Date: 03/27/25

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/Targets via GCMS-SIM - Westborough Lab for sample(s): 01-04 Batch: WG2045157-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	66		40-140
o-Terphenyl	70		40-140
2-Fluorobiphenyl	74		40-140
2-Bromonaphthalene	74		40-140
O-Terphenyl-MS	77		40-140

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251764.11

Lab Number: L2516949

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
EPH w/Targets via GCMS-SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG2045157-2 WG2045157-3								
C9-C18 Aliphatics	69		64		40-140	8		20
C19-C36 Aliphatics	79		74		40-140	7		20
C11-C22 Aromatics	67		72		40-140	7		20
Naphthalene	74		77		40-140	4		20
2-Methylnaphthalene	78		82		40-140	5		20
Acenaphthylene	79		84		40-140	6		20
Acenaphthene	79		86		40-140	8		20
Fluorene	81		87		40-140	7		20
Phenanthrene	80		86		40-140	7		20
Anthracene	85		93		40-140	9		20
Fluoranthene	86		94		40-140	9		20
Pyrene	87		95		40-140	9		20
Benzo(a)anthracene	84		91		40-140	8		20
Chrysene	81		87		40-140	7		20
Benzo(b)fluoranthene	80		89		40-140	11		20
Benzo(k)fluoranthene	85		88		40-140	3		20
Benzo(a)pyrene	92		100		40-140	8		20
Indeno(1,2,3-cd)Pyrene	85		90		40-140	6		20
Dibenzo(a,h)anthracene	91		97		40-140	6		20
Benzo(ghi)perylene	83		90		40-140	8		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Lab Number: L2516949

Project Number: 30251764.11

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

EPH w/Targets via GCMS-SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG2045157-2 WG2045157-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	67		66		40-140
o-Terphenyl	65		72		40-140
2-Fluorobiphenyl	67		74		40-140
2-Bromonaphthalene	69		76		40-140
O-Terphenyl-MS	77		85		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

METALS

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-01

Date Collected: 03/21/25 08:30

Client ID: IRRIG-1

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 15:54	EPA 3005A	97,6020B	WKP
Arsenic, Total	ND		mg/l	0.0050	--	1	03/28/25 10:15	03/28/25 16:55	EPA 3005A	97,6010D	DMC
Barium, Total	0.0109		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 16:55	EPA 3005A	97,6010D	DMC
Beryllium, Total	ND		mg/l	0.0005	--	1	03/28/25 10:15	03/30/25 15:54	EPA 3005A	97,6020B	WKP
Cadmium, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/28/25 16:55	EPA 3005A	97,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 16:55	EPA 3005A	97,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 16:55	EPA 3005A	97,6010D	DMC
Mercury, Total	ND		mg/l	0.0002	--	1	03/28/25 11:47	03/28/25 14:49	EPA 7470A	97,7470A	MJR
Nickel, Total	ND		mg/l	0.0250	--	1	03/28/25 10:15	03/28/25 16:55	EPA 3005A	97,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 16:55	EPA 3005A	97,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/28/25 10:15	03/28/25 16:55	EPA 3005A	97,6010D	DMC
Thallium, Total	ND		mg/l	0.0010	--	1	03/28/25 10:15	03/30/25 15:54	EPA 3005A	97,6020B	WKP
Vanadium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 16:55	EPA 3005A	97,6010D	DMC
Zinc, Total	0.653		mg/l	0.0500	--	1	03/28/25 10:15	03/28/25 16:55	EPA 3005A	97,6010D	DMC



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-02

Date Collected: 03/21/25 11:00

Client ID: MW-6

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 15:59	EPA 3005A	97,6020B	WKP
Arsenic, Total	ND		mg/l	0.0050	--	1	03/28/25 10:15	03/28/25 17:01	EPA 3005A	97,6010D	DMC
Barium, Total	0.0366		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:01	EPA 3005A	97,6010D	DMC
Beryllium, Total	ND		mg/l	0.0005	--	1	03/28/25 10:15	03/30/25 15:59	EPA 3005A	97,6020B	WKP
Cadmium, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/28/25 17:01	EPA 3005A	97,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:01	EPA 3005A	97,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:01	EPA 3005A	97,6010D	DMC
Mercury, Total	ND		mg/l	0.0002	--	1	03/28/25 11:47	03/28/25 14:53	EPA 7470A	97,7470A	MJR
Nickel, Total	ND		mg/l	0.0250	--	1	03/28/25 10:15	03/28/25 17:01	EPA 3005A	97,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:01	EPA 3005A	97,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/28/25 10:15	03/28/25 17:01	EPA 3005A	97,6010D	DMC
Thallium, Total	ND		mg/l	0.0010	--	1	03/28/25 10:15	03/30/25 15:59	EPA 3005A	97,6020B	WKP
Vanadium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:01	EPA 3005A	97,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/28/25 10:15	03/28/25 17:01	EPA 3005A	97,6010D	DMC



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-03

Date Collected: 03/21/25 13:30

Client ID: MW-1

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 16:03	EPA 3005A	97,6020B	WKP
Arsenic, Total	ND		mg/l	0.0050	--	1	03/28/25 10:15	03/28/25 17:07	EPA 3005A	97,6010D	DMC
Barium, Total	0.0130		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:07	EPA 3005A	97,6010D	DMC
Beryllium, Total	ND		mg/l	0.0005	--	1	03/28/25 10:15	03/30/25 16:03	EPA 3005A	97,6020B	WKP
Cadmium, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/28/25 17:07	EPA 3005A	97,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:07	EPA 3005A	97,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:07	EPA 3005A	97,6010D	DMC
Mercury, Total	ND		mg/l	0.0002	--	1	03/28/25 11:47	03/28/25 14:56	EPA 7470A	97,7470A	MJR
Nickel, Total	ND		mg/l	0.0250	--	1	03/28/25 10:15	03/28/25 17:07	EPA 3005A	97,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:07	EPA 3005A	97,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/28/25 10:15	03/28/25 17:07	EPA 3005A	97,6010D	DMC
Thallium, Total	ND		mg/l	0.0010	--	1	03/28/25 10:15	03/30/25 16:03	EPA 3005A	97,6020B	WKP
Vanadium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:07	EPA 3005A	97,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/28/25 10:15	03/28/25 17:07	EPA 3005A	97,6010D	DMC



Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**SAMPLE RESULTS**

Lab ID: L2516949-04

Date Collected: 03/21/25 16:00

Client ID: MW-2

Date Received: 03/21/25

Sample Location: 525 GIFFORD STREET FALMOUTH MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 17:01	EPA 3005A	97,6020B	WKP
Arsenic, Total	ND		mg/l	0.0050	--	1	03/28/25 10:15	03/28/25 17:45	EPA 3005A	97,6010D	DMC
Barium, Total	1.17		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:45	EPA 3005A	97,6010D	DMC
Beryllium, Total	ND		mg/l	0.0005	--	1	03/28/25 10:15	03/30/25 17:01	EPA 3005A	97,6020B	WKP
Cadmium, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/28/25 17:45	EPA 3005A	97,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:45	EPA 3005A	97,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:45	EPA 3005A	97,6010D	DMC
Mercury, Total	ND		mg/l	0.0002	--	1	03/28/25 11:47	03/28/25 14:59	EPA 7470A	97,7470A	MJR
Nickel, Total	ND		mg/l	0.0250	--	1	03/28/25 10:15	03/28/25 17:45	EPA 3005A	97,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:45	EPA 3005A	97,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/28/25 10:15	03/28/25 17:45	EPA 3005A	97,6010D	DMC
Thallium, Total	ND		mg/l	0.0010	--	1	03/28/25 10:15	03/30/25 17:01	EPA 3005A	97,6020B	WKP
Vanadium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 17:45	EPA 3005A	97,6010D	DMC
Zinc, Total	0.0708		mg/l	0.0500	--	1	03/28/25 10:15	03/28/25 17:45	EPA 3005A	97,6010D	DMC



Project Name: TROTting PARK FIELDS

Lab Number: L2516949

Project Number: 30251764.11

Report Date: 04/01/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2046440-1										
Arsenic, Total	ND		mg/l	0.0050	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Barium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Cadmium, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Nickel, Total	ND		mg/l	0.0250	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Vanadium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2046443-1										
Antimony, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 16:18	97,6020B	WKP
Beryllium, Total	ND		mg/l	0.0005	--	1	03/28/25 10:15	03/30/25 16:18	97,6020B	WKP
Thallium, Total	ND		mg/l	0.0010	--	1	03/28/25 10:15	03/30/25 16:18	97,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2046445-1										
Mercury, Total	ND		mg/l	0.0002	--	1	03/28/25 11:47	03/28/25 14:39	97,7470A	MJR



Project Name: TROTting PARK FIELDS

Lab Number: L2516949

Project Number: 30251764.11

Report Date: 04/01/25

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251764.11

Lab Number: L2516949

Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2046440-2 WG2046440-3								
Arsenic, Total	92		92		80-120	0		20
Barium, Total	101		101		80-120	0		20
Cadmium, Total	103		103		80-120	0		20
Chromium, Total	105		104		80-120	1		20
Lead, Total	98		99		80-120	1		20
Nickel, Total	104		104		80-120	0		20
Selenium, Total	89		88		80-120	1		20
Silver, Total	103		102		80-120	1		20
Vanadium, Total	105		105		80-120	0		20
Zinc, Total	103		103		80-120	0		20
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2046443-2 WG2046443-3								
Antimony, Total	98		100		80-120	2		20
Beryllium, Total	108		109		80-120	1		20
Thallium, Total	92		94		80-120	2		20
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2046445-2 WG2046445-3								
Mercury, Total	95		95		80-120	0		20

Project Name: TROTting PARK FIELDS**Lab Number:** L2516949**Project Number:** 30251764.11**Report Date:** 04/01/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2516949-01A	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-01B	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-01C	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-01D	Plastic 250ml HNO3 preserved	A	<2	<2	5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7470T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2516949-01E	Amber 1L HCl preserved	A	<2	<2	5.5	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2516949-01F	Amber 1L HCl preserved	A	<2	<2	5.5	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2516949-02A	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-02B	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-02C	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-02D	Plastic 250ml HNO3 preserved	A	<2	<2	5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2516949-02E	Amber 1L HCl preserved	A	<2	<2	5.5	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2516949-02F	Amber 1L HCl preserved	A	<2	<2	5.5	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2516949-03A	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-03B	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-03C	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)

Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Serial_No:04012518:11
Lab Number: L2516949
Report Date: 04/01/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2516949-03D	Plastic 250ml HNO3 preserved	A	<2	<2	5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2516949-03E	Amber 1L HCl preserved	A	<2	<2	5.5	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2516949-03F	Amber 1L HCl preserved	A	<2	<2	5.5	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2516949-04A	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-04B	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-04C	Vial HCl preserved	A	NA		5.5	Y	Absent		MCP-8260-21(14)
L2516949-04D	Plastic 250ml HNO3 preserved	A	<2	<2	5.5	Y	Absent		MCP-CR-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2516949-04E	Amber 1L HCl preserved	A	<2	<2	5.5	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2516949-04F	Amber 1L HCl preserved	A	<2	<2	5.5	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)

Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
Report Date: 04/01/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: TROTting PARK FIELDS
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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: TROTting PARK FIELDS
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Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TROTting PARK FIELDS
Project Number: 30251764.11

Lab Number: L2516949
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REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSCCAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010; WSC-CAM-IIIA and IIID, January 2024; WSC-CAM-IIIB and VA, February 2024; WSC-CAM-VB and VC, April 2024; and WSC-CAM-VIA, VIB, IXA, and IXB, October 2024.
- 135 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, December 2019, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, March 1, 2020.
- 141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

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Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

**Method Blank Summary
Form 4
Volatiles**

Client	: Arcadis G&M, Inc.	Lab Number	: L2516949
Project Name	: TROTting PARK FIELDS	Project Number	: 30251764.11
Lab Sample ID	: WG2046493-5	Lab File ID	: V16250328A05
Instrument ID	: VOA116		
Matrix	: LIQUID	Analysis Date	: 03/28/25 05:00

Client Sample No.	Lab Sample ID	Analysis Date
WG2046493-3LCS	WG2046493-3	03/28/25 03:26
WG2046493-4LCSD	WG2046493-4	03/28/25 03:50
IRRIG-1	L2516949-01	03/28/25 10:32
MW-1	L2516949-03	03/28/25 10:55
MW-2	L2516949-04	03/28/25 11:19

**Method Blank Summary
Form 4
Volatiles**

Client	: Arcadis G&M, Inc.	Lab Number	: L2516949
Project Name	: TROTting PARK FIELDS	Project Number	: 30251764.11
Lab Sample ID	: WG2047245-5	Lab File ID	: J250329A05
Instrument ID	: JACK		
Matrix	: WATER	Analysis Date	: 03/29/25 05:40

Client Sample No.	Lab Sample ID	Analysis Date
WG2047245-3LCS	WG2047245-3	03/29/25 04:20
WG2047245-4LCSD	WG2047245-4	03/29/25 04:47
MW-6	L2516949-02	03/29/25 14:34

Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : VOA116
 Lab File ID : V16250328A01
 Sample No : WG2046493-2
 Channel :

Lab Number : L2516949
 Project Number : 30251764.11
 Calibration Date : 03/28/25 03:26
 Init. Calib. Date(s) : 02/21/25 02/21/25
 Init. Calib. Times : 04:15 07:00

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	79	0
Dichlorodifluoromethane	0.221	0.178	-	19.5	20	63	0
Chloromethane	0.19	0.194	-	-2.1	20	76	0
Vinyl chloride	0.255	0.201	-	21.2*	20	58	0
Bromomethane	0.151	0.114	-	24.5*	20	64	0
Chloroethane	0.156	0.117	-	25*	20	58	0
Trichlorofluoromethane	0.285	0.272	-	4.6	20	72	0
Ethyl ether	0.067	0.06	-	10.4	20	69	0
1,1-Dichloroethene	0.155	0.145	-	6.5	20	73	0
Carbon disulfide	0.495	0.467	-	5.7	20	74	0
Freon-113	0.175	0.166	-	5.1	20	75	0
Methylene chloride	0.177	0.157	-	11.3	20	71	0
Acetone	0.027	0.028	-	-3.7	20	75	0
trans-1,2-Dichloroethene	0.171	0.157	-	8.2	20	71	0
Methyl acetate	0.065	0.07	-	-7.7	20	88	0
Methyl tert-butyl ether	0.306	0.271	-	11.4	20	73	0
tert-Butyl alcohol	0.00485	0.00517*	-	-6.6	20	82	0
Diisopropyl ether	0.496	0.496	-	0	20	80	0
1,1-Dichloroethane	0.306	0.298*	-	2.6	20	78	0
Halothane	0.141	0.129	-	8.5	20	70	0
Acrylonitrile	0.031	0.031	-	0	20	71	0
Ethyl tert-butyl ether	0.38	0.344	-	9.5	20	75	0
Vinyl acetate	0.305	0.291	-	4.6	20	82	0
cis-1,2-Dichloroethene	0.192	0.17*	-	11.5	20	70	0
2,2-Dichloropropane	0.224	0.214	-	4.5	20	82	0
Bromochloromethane	0.096	0.086*	-	10.4	20	69	0
Cyclohexane	0.294	0.295	-	-0.3	20	81	0
Chloroform	0.34	0.314	-	7.6	20	72	0
Ethyl acetate	0.097	0.095	-	2.1	20	79	0
Carbon tetrachloride	0.284	0.264	-	7	20	75	0
Tetrahydrofuran	0.032	0.034	-	-6.3	20	89	0
Dibromofluoromethane	0.295	0.289	-	2	20	77	0
1,1,1-Trichloroethane	0.287	0.271	-	5.6	20	74	0
2-Butanone	0.041	0.048	-	-17.1	20	96	0
1,1-Dichloropropene	0.222	0.209	-	5.9	20	74	0
Benzene	0.655	0.615	-	6.1	20	72	0
tert-Amyl methyl ether	0.332	0.272	-	18.1	20	72	0
1,2-Dichloroethane-d4	0.303	0.328	-	-8.3	20	80	0
1,2-Dichloroethane	0.223	0.209	-	6.3	20	72	0
Methyl cyclohexane	0.337	0.299	-	11.3	20	72	0
Trichloroethene	0.203	0.18*	-	11.3	20	71	0
Dibromomethane	0.105	0.093	-	11.4	20	69	0
1,2-Dichloropropane	0.176	0.169*	-	4	20	73	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : VOA116
 Lab File ID : V16250328A01
 Sample No : WG2046493-2
 Channel :

Lab Number : L2516949
 Project Number : 30251764.11
 Calibration Date : 03/28/25 03:26
 Init. Calib. Date(s) : 02/21/25 02/21/25
 Init. Calib. Times : 04:15 07:00

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.271	0.242*	-	10.7	20	72	0
1,4-Dioxane	0.00081	0.00084*	-	-3.7	20	72	0
cis-1,3-Dichloropropene	10	8.342	-	16.6	20	72	0
Chlorobenzene-d5	1	1	-	0	20	74	0
Toluene-d8	1.17	1.322	-	-13	20	76	0
Toluene	0.516	0.531	-	-2.9	20	71	0
4-Methyl-2-pentanone	0.037	0.032	-	13.5	20	68	0
Tetrachloroethene	0.253	0.285	-	-12.6	20	76	0
trans-1,3-Dichloropropene	10	9.173	-	8.3	20	70	0
Ethyl methacrylate	0.146	0.125	-	14.4	20	67	0
1,1,2-Trichloroethane	0.131	0.136*	-	-3.8	20	70	0
Chlorodibromomethane	0.222	0.22	-	0.9	20	68	0
1,3-Dichloropropane	0.259	0.265	-	-2.3	20	68	0
1,2-Dibromoethane	0.158	0.155*	-	1.9	20	67	0
2-Hexanone	0.063	0.064	-	-1.6	20	76	0
Chlorobenzene	0.615	0.624	-	-1.5	20	70	0
Ethylbenzene	1.012	1.039	-	-2.7	20	70	0
1,1,1,2-Tetrachloroethane	0.223	0.23	-	-3.1	20	71	0
p/m Xylene	0.407	0.413	-	-1.5	20	69	0
o Xylene	0.391	0.392	-	-0.3	20	68	0
Styrene	0.651	0.66	-	-1.4	20	68	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	75	0
Bromoform	0.244	0.225	-	7.8	20	73	0
Isopropylbenzene	2.007	1.732	-	13.7	20	68	0
4-Bromofluorobenzene	0.765	0.749	-	2.1	20	75	0
Bromobenzene	0.486	0.459	-	5.6	20	72	0
n-Propylbenzene	2.303	2.117	-	8.1	20	69	0
1,4-Dichlorobutane	0.439	0.395	-	10	20	72	0
1,1,2,2-Tetrachloroethane	0.332	0.284	-	14.5	20	64	0
4-Ethyltoluene	1.916	1.777	-	7.3	20	70	0
2-Chlorotoluene	1.568	1.437	-	8.4	20	70	0
1,3,5-Trimethylbenzene	1.64	1.515	-	7.6	20	69	0
1,2,3-Trichloropropane	0.254	0.224	-	11.8	20	67	0
trans-1,4-Dichloro-2-buten	0.089	0.088	-	1.1	20	75	0
4-Chlorotoluene	1.38	1.272	-	7.8	20	70	0
tert-Butylbenzene	1.439	1.295	-	10	20	67	0
1,2,4-Trimethylbenzene	1.567	1.423	-	9.2	20	68	0
sec-Butylbenzene	2.178	2.033	-	6.7	20	69	0
p-Isopropyltoluene	1.932	1.8	-	6.8	20	69	0
1,3-Dichlorobenzene	0.994	0.932	-	6.2	20	72	0
1,4-Dichlorobenzene	0.995	0.925	-	7	20	71	0
p-Diethylbenzene	1.159	0.951	-	17.9	20	67	0
n-Butylbenzene	1.621	1.448	-	10.7	20	69	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : VOA116
 Lab File ID : V16250328A01
 Sample No : WG2046493-2
 Channel :

Lab Number : L2516949
 Project Number : 30251764.11
 Calibration Date : 03/28/25 03:26
 Init. Calib. Date(s) : 02/21/25 02/21/25
 Init. Calib. Times : 04:15 07:00

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichlorobenzene	0.893	0.827	-	7.4	20	70	0
1,2,4,5-Tetramethylbenzene	1.515	1.238	-	18.3	20	67	0
1,2-Dibromo-3-chloropropan	0.049	0.045	-	8.2	20	68	0
1,3,5-Trichlorobenzene	0.681	0.651	-	4.4	20	73	0
Hexachlorobutadiene	0.264	0.266	-	-0.8	20	76	0
1,2,4-Trichlorobenzene	0.554	0.493	-	11	20	69	0
Naphthalene	0.869	0.692	-	20.4*	20	61	0
1,2,3-Trichlorobenzene	0.466	0.438	-	6	20	70	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : JACK
 Lab File ID : J250329A02
 Sample No : WG2047245-2
 Channel :

Lab Number : L2516949
 Project Number : 30251764.11
 Calibration Date : 03/29/25 04:20
 Init. Calib. Date(s) : 02/28/25 02/28/25
 Init. Calib. Times : 05:35 08:42

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	84	0
Dichlorodifluoromethane	0.28	0.254	-	9.3	20	74	0
Chloromethane	0.294	0.272	-	7.5	20	77	0
Vinyl chloride	0.352	0.392	-	-11.4	20	90	0
Bromomethane	0.178	0.147	-	17.4	20	71	0
Chloroethane	0.189	0.223	-	-18	20	96	0
Trichlorofluoromethane	0.411	0.398	-	3.2	20	78	0
Ethyl ether	0.116	0.109	-	6	20	78	0
1,1-Dichloroethene	0.228	0.221	-	3.1	20	81	0
Carbon disulfide	0.7	0.695	-	0.7	20	83	0
Freon-113	0.246	0.244	-	0.8	20	83	0
Acrolein	0.041	0.038	-	7.3	20	81	0
Methylene chloride	0.247	0.24	-	2.8	20	82	0
Acetone	0.077	0.067	-	13	20	77	0
trans-1,2-Dichloroethene	0.247	0.242	-	2	20	80	0
Methyl acetate	0.167	0.147	-	12	20	76	0
Methyl tert-butyl ether	0.682	0.607	-	11	20	75	0
tert-Butyl alcohol	0.026	0.02	-	23.1*	20	57	0
Diisopropyl ether	0.875	0.785	-	10.3	20	76	0
1,1-Dichloroethane	0.492	0.471	-	4.3	20	80	0
Halothane	0.201	0.192	-	4.5	20	78	.01
Acrylonitrile	0.082	0.078	-	4.9	20	79	0
Ethyl tert-butyl ether	0.785	0.673	-	14.3	20	73	0
Vinyl acetate	0.688	0.593	-	13.8	20	74	0
cis-1,2-Dichloroethene	0.272	0.271	-	0.4	20	83	0
2,2-Dichloropropane	0.423	0.394	-	6.9	20	79	0
Bromochloromethane	0.122	0.122	-	0	20	80	0
Cyclohexane	0.51	0.483	-	5.3	20	80	0
Chloroform	0.462	0.439	-	5	20	81	0
Ethyl acetate	0.269	0.229	-	14.9	20	71	0
Carbon tetrachloride	0.363	0.354	-	2.5	20	79	0
Tetrahydrofuran	0.095	0.084	-	11.6	20	72	0
Dibromofluoromethane	0.264	0.277	-	-4.9	20	87	0
1,1,1-Trichloroethane	0.408	0.394	-	3.4	20	81	0
2-Butanone	0.121	0.098	-	19	20	70	0
1,1-Dichloropropene	0.335	0.316	-	5.7	20	78	0
Benzene	1.011	0.957	-	5.3	20	80	0
tert-Amyl methyl ether	0.688	0.579	-	15.8	20	70	0
1,2-Dichloroethane-d4	0.324	0.319	-	1.5	20	84	0
1,2-Dichloroethane	0.355	0.333	-	6.2	20	78	0
Methyl cyclohexane	0.47	0.429	-	8.7	20	79	0
Trichloroethene	0.271	0.251	-	7.4	20	77	0
Dibromomethane	0.153	0.143	-	6.5	20	76	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : JACK
 Lab File ID : J250329A02
 Sample No : WG2047245-2
 Channel :

Lab Number : L2516949
 Project Number : 30251764.11
 Calibration Date : 03/29/25 04:20
 Init. Calib. Date(s) : 02/28/25 02/28/25
 Init. Calib. Times : 05:35 08:42

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.262	0.245	-	6.5	20	73	0
2-Chloroethyl vinyl ether	0.159	0.116	-	27*	20	58	0
Bromodichloromethane	0.344	0.304	-	11.6	20	71	0
1,4-Dioxane	0.00217	0.0018*	-	17.1	20	71	0
cis-1,3-Dichloropropene	0.409	0.377	-	7.8	20	73	0
Chlorobenzene-d5	1	1	-	0	20	85	0
Toluene-d8	1.318	1.318	-	0	20	86	0
Toluene	0.882	0.794	-	10	20	77	0
4-Methyl-2-pentanone	0.125	0.102	-	18.4	20	67	0
Tetrachloroethene	0.411	0.354	-	13.9	20	73	0
trans-1,3-Dichloropropene	0.495	0.429	-	13.3	20	71	0
Ethyl methacrylate	0.424	0.349	-	17.7	20	66	0
1,1,2-Trichloroethane	0.262	0.236	-	9.9	20	71	0
Chlorodibromomethane	0.365	0.311	-	14.8	20	69	0
1,3-Dichloropropane	0.486	0.435	-	10.5	20	74	0
1,2-Dibromoethane	0.295	0.262	-	11.2	20	72	0
2-Hexanone	0.255	0.198	-	22.4*	20	62	0
Chlorobenzene	0.973	0.88	-	9.6	20	74	0
Ethylbenzene	1.752	1.589	-	9.3	20	76	0
1,1,1,2-Tetrachloroethane	0.357	0.308	-	13.7	20	71	0
p/m Xylene	0.685	0.614	-	10.4	20	76	0
o Xylene	0.658	0.591	-	10.2	20	76	0
Styrene	1.121	0.983	-	12.3	20	73	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	84	0
Bromoform	0.441	0.376	-	14.7	20	66	0
Isopropylbenzene	3.009	2.749	-	8.6	20	74	0
4-Bromofluorobenzene	0.855	0.836	-	2.2	20	83	0
Bromobenzene	0.72	0.647	-	10.1	20	71	0
n-Propylbenzene	3.645	3.374	-	7.4	20	76	0
1,4-Dichlorobutane	0.953	0.811	-	14.9	20	69	0
1,1,2,2-Tetrachloroethane	0.7	0.622	-	11.1	20	68	0
4-Ethyltoluene	2.97	2.778	-	6.5	20	77	0
2-Chlorotoluene	2.404	2.202	-	8.4	20	75	0
1,3,5-Trimethylbenzene	2.587	2.335	-	9.7	20	74	0
1,2,3-Trichloropropane	0.56	0.5	-	10.7	20	70	0
trans-1,4-Dichloro-2-buten	0.238	0.199	-	16.4	20	64	0
4-Chlorotoluene	2.179	1.985	-	8.9	20	73	0
tert-Butylbenzene	2.151	1.956	-	9.1	20	75	0
1,2,4-Trimethylbenzene	2.516	2.278	-	9.5	20	74	0
sec-Butylbenzene	3.283	3.016	-	8.1	20	76	0
p-Isopropyltoluene	2.792	2.561	-	8.3	20	75	0
1,3-Dichlorobenzene	1.47	1.312	-	10.7	20	72	0
1,4-Dichlorobenzene	1.47	1.335	-	9.2	20	73	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : JACK
 Lab File ID : J250329A02
 Sample No : WG2047245-2
 Channel :

Lab Number : L2516949
 Project Number : 30251764.11
 Calibration Date : 03/29/25 04:20
 Init. Calib. Date(s) : 02/28/25 02/28/25
 Init. Calib. Times : 05:35 08:42

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.637	1.49	-	9	20	74	0
n-Butylbenzene	2.502	2.36	-	5.7	20	78	0
1,2-Dichlorobenzene	1.362	1.227	-	9.9	20	72	0
1,2,4,5-Tetramethylbenzene	2.513	2.169	-	13.7	20	72	0
1,2-Dibromo-3-chloropropan	0.133	0.112	-	15.8	20	67	0
1,3,5-Trichlorobenzene	1.072	0.94	-	12.3	20	72	0
Hexachlorobutadiene	0.458	0.377	-	17.7	20	71	0
1,2,4-Trichlorobenzene	0.948	0.823	-	13.2	20	72	0
Naphthalene	2.388	2.08	-	12.9	20	71	0
1,2,3-Trichlorobenzene	0.868	0.756	-	12.9	20	71	0

* Value outside of QC limits.



ANALYTICAL REPORT

Lab Number:	L2517179
Client:	Arcadis G&M, Inc. 500 Edgewater Drive Suite 511 Wakefield, MA 01880
ATTN:	Jim Luker
Phone:	(999) 999-9999
Project Name:	TROTting PARK FIELDS
Project Number:	30251964.11
Report Date:	04/02/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2517179-01	MW-3	WATER	525 GIFFORD ST. FALMOUTH, MA	03/24/25 10:30	03/24/25
L2517179-02	MW-4	WATER	525 GIFFORD ST. FALMOUTH, MA	03/24/25 12:15	03/24/25
L2517179-03	MW-5	WATER	525 GIFFORD ST. FALMOUTH, MA	03/24/25 15:15	03/24/25
L2517179-04	DUP-01	WATER	525 GIFFORD ST. FALMOUTH, MA	03/24/25 12:15	03/24/25
L2517179-05	TRIP BLANK	WATER	525 GIFFORD ST. FALMOUTH, MA	03/18/25 15:30	03/24/25

Project Name: TROTting PARK FIELDS

Lab Number: L2517179

Project Number: 30251964.11

Report Date: 04/02/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is 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
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
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
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
E 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).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
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
A response to questions G, H and I is 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
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

L2517179-05: A sample identified as "TRIP BLANK" was received, but not listed on the chain of custody. At the client's request, this sample was analyzed.

Volatile Organics

L2517179-05: Initial calibration utilized a quadratic fit for: trans-1,3-dichloropropene, cis-1,3-dichloropropene
In reference to question H:

L2517179-01 through -04: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0019)

Average Response Factor: 1,4-dioxane

Verification: dichlorodifluoromethane (136%)

L2517179-05: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,1-dichloroethane (0.2633), cis-1,2-dichloroethene (0.1736), bromochloromethane (0.0831), chloroform (0.2722), 1,2-dichloropropane (0.1227), bromodichloromethane (0.2518), 1,4-dioxane (0.0006), 4-methyl-2-pentanone (0.0235), 1,1,2-trichloroethane (0.1173), chlorodibromomethane (0.1843), 1,2-dibromoethane (0.1316), 1,2,3-trichlorobenzene (0.384)

Average Response Factor: cis-1,2-dichloroethene, bromochloromethane, 1,2-dichloropropane, bromodichloromethane, 1,4-dioxane, 1,1,2-trichloroethane, 1,2-dibromoethane

L2517179-01 through -05: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kelly O'Neill

Title: Technical Director/Representative

Date: 04/02/25

QC OUTLIER SUMMARY REPORT

Project Name: TROTting PARK FIELDS

Lab Number: L2517179

Project Number: 30251964.11

Report Date: 04/02/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

ORGANICS

VOLATILES

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-01
 Client ID: MW-3
 Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Date Collected: 03/24/25 10:30
 Date Received: 03/24/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 141,8260D
 Analytical Date: 03/29/25 09:40
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-01

Date Collected: 03/24/25 10:30

Client ID: MW-3

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS****Lab ID:** L2517179-01**Date Collected:** 03/24/25 10:30**Client ID:** MW-3**Date Received:** 03/24/25**Sample Location:** 525 GIFFORD ST. FALMOUTH, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	114		70-130

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-02
 Client ID: MW-4
 Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Date Collected: 03/24/25 12:15
 Date Received: 03/24/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 141,8260D
 Analytical Date: 03/29/25 10:07
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS****Lab ID:** L2517179-02**Date Collected:** 03/24/25 12:15**Client ID:** MW-4**Date Received:** 03/24/25**Sample Location:** 525 GIFFORD ST. FALMOUTH, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS****Lab ID:** L2517179-02**Date Collected:** 03/24/25 12:15**Client ID:** MW-4**Date Received:** 03/24/25**Sample Location:** 525 GIFFORD ST. FALMOUTH, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	113		70-130

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-03
 Client ID: MW-5
 Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Date Collected: 03/24/25 15:15
 Date Received: 03/24/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 141,8260D
 Analytical Date: 03/29/25 10:34
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-03

Date Collected: 03/24/25 15:15

Client ID: MW-5

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	2.3		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	2.3		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS****Lab ID:** L2517179-03**Date Collected:** 03/24/25 15:15**Client ID:** MW-5**Date Received:** 03/24/25**Sample Location:** 525 GIFFORD ST. FALMOUTH, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	116		70-130

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-04
 Client ID: DUP-01
 Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Date Collected: 03/24/25 12:15
 Date Received: 03/24/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 141,8260D
 Analytical Date: 03/29/25 11:00
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-04

Date Collected: 03/24/25 12:15

Client ID: DUP-01

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS****Lab ID:** L2517179-04**Date Collected:** 03/24/25 12:15**Client ID:** DUP-01**Date Received:** 03/24/25**Sample Location:** 525 GIFFORD ST. FALMOUTH, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	110		70-130

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-05
 Client ID: TRIP BLANK
 Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Date Collected: 03/18/25 15:30
 Date Received: 03/24/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 141,8260D
 Analytical Date: 03/27/25 09:55
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-05
 Client ID: TRIP BLANK
 Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Date Collected: 03/18/25 15:30
 Date Received: 03/24/25
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS****Lab ID:** L2517179-05**Date Collected:** 03/18/25 15:30**Client ID:** TRIP BLANK**Date Received:** 03/24/25**Sample Location:** 525 GIFFORD ST. FALMOUTH, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/27/25 09:32
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 05 Batch: WG2046428-5					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--



Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/27/25 09:32
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 05 Batch: WG2046428-5					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
Methyl ethyl ketone	ND		ug/l	5.0	--
Methyl isobutyl ketone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--



Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 03/27/25 09:32
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 05 Batch: WG2046428-5					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Diethyl ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130



Project Name: TROTting PARK FIELDS

Lab Number: L2517179

Project Number: 30251964.11

Report Date: 04/02/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/29/25 05:40
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG2047245-5					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--



Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
 Analytical Date: 03/29/25 05:40
 Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG2047245-5					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
Methyl ethyl ketone	ND		ug/l	5.0	--
Methyl isobutyl ketone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--



Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Method Blank Analysis Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 03/29/25 05:40
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG2047245-5					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Diethyl ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	107		70-130



Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251964.11

Lab Number: L2517179

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG2046428-3 WG2046428-4								
Methylene chloride	94		98		70-130	4		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	98		98		70-130	0		20
Carbon tetrachloride	100		98		70-130	2		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	110		110		70-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	120		120		70-130	0		20
Chlorobenzene	110		110		70-130	0		20
Trichlorofluoromethane	100		100		70-130	0		20
1,2-Dichloroethane	110		99		70-130	11		20
1,1,1-Trichloroethane	97		99		70-130	2		20
Bromodichloromethane	98		94		70-130	4		20
trans-1,3-Dichloropropene	98		100		70-130	2		20
cis-1,3-Dichloropropene	88		89		70-130	1		20
1,1-Dichloropropene	97		96		70-130	1		20
Bromoform	100		100		70-130	0		20
1,1,2,2-Tetrachloroethane	98		100		70-130	2		20
Benzene	98		99		70-130	1		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	110		110		70-130	0		20
Bromomethane	77		77		70-130	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251964.11

Lab Number: L2517179

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG2046428-3 WG2046428-4								
Vinyl chloride	80		77		70-130	4		20
Chloroethane	78		74		70-130	5		20
1,1-Dichloroethene	95		97		70-130	2		20
trans-1,2-Dichloroethene	98		95		70-130	3		20
Trichloroethene	94		94		70-130	0		20
1,2-Dichlorobenzene	99		100		70-130	1		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	94		98		70-130	4		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	92		96		70-130	4		20
Dibromomethane	94		93		70-130	1		20
1,2,3-Trichloropropane	98		100		70-130	2		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	88		89		70-130	1		20
Acetone	110		120		70-130	9		20
Carbon disulfide	100		99		70-130	1		20
Methyl ethyl ketone	100		120		70-130	18		20
Methyl isobutyl ketone	100		100		70-130	0		20
2-Hexanone	110		120		70-130	9		20
Bromochloromethane	94		93		70-130	1		20
Tetrahydrofuran	110		110		70-130	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251964.11

Lab Number: L2517179

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG2046428-3 WG2046428-4								
2,2-Dichloropropane	99		97		70-130	2		20
1,2-Dibromoethane	100		110		70-130	10		20
1,3-Dichloropropane	110		120		70-130	9		20
1,1,1,2-Tetrachloroethane	110		110		70-130	0		20
Bromobenzene	98		100		70-130	2		20
n-Butylbenzene	97		99		70-130	2		20
sec-Butylbenzene	98		100		70-130	2		20
tert-Butylbenzene	97		98		70-130	1		20
o-Chlorotoluene	98		100		70-130	2		20
p-Chlorotoluene	98		100		70-130	2		20
1,2-Dibromo-3-chloropropane	100		100		70-130	0		20
Hexachlorobutadiene	110		110		70-130	0		20
Isopropylbenzene	90		94		70-130	4		20
p-Isopropyltoluene	98		100		70-130	2		20
Naphthalene	89		95		70-130	7		20
n-Propylbenzene	98		100		70-130	2		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	96		100		70-130	4		20
1,3,5-Trimethylbenzene	96		100		70-130	4		20
1,2,4-Trimethylbenzene	97		99		70-130	2		20
Diethyl ether	95		97		70-130	2		20
Diisopropyl Ether	110		110		70-130	0		20
Ethyl-Tert-Butyl-Ether	97		98		70-130	1		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Lab Number: L2517179

Project Number: 30251964.11

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG2046428-3 WG2046428-4								
Tertiary-Amyl Methyl Ether	90		86		70-130	5		20
1,4-Dioxane	114		94		70-130	19		20

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		108		70-130
Toluene-d8	113		114		70-130
4-Bromofluorobenzene	98		100		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251964.11

Lab Number: L2517179

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG2047245-3 WG2047245-4								
Methylene chloride	97		98		70-130	1		20
1,1-Dichloroethane	96		97		70-130	1		20
Chloroform	95		92		70-130	3		20
Carbon tetrachloride	97		98		70-130	1		20
1,2-Dichloropropane	93		93		70-130	0		20
Dibromochloromethane	85		85		70-130	0		20
1,1,2-Trichloroethane	90		87		70-130	3		20
Tetrachloroethene	86		88		70-130	2		20
Chlorobenzene	90		90		70-130	0		20
Trichlorofluoromethane	97		95		70-130	2		20
1,2-Dichloroethane	94		93		70-130	1		20
1,1,1-Trichloroethane	96		94		70-130	2		20
Bromodichloromethane	88		94		70-130	7		20
trans-1,3-Dichloropropene	87		87		70-130	0		20
cis-1,3-Dichloropropene	92		90		70-130	2		20
1,1-Dichloropropene	94		94		70-130	0		20
Bromoform	85		86		70-130	1		20
1,1,2,2-Tetrachloroethane	89		90		70-130	1		20
Benzene	95		92		70-130	3		20
Toluene	90		90		70-130	0		20
Ethylbenzene	91		89		70-130	2		20
Chloromethane	92		89		70-130	3		20
Bromomethane	82		80		70-130	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251964.11

Lab Number: L2517179

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG2047245-3 WG2047245-4								
Vinyl chloride	110		110		70-130	0		20
Chloroethane	120		120		70-130	0		20
1,1-Dichloroethene	97		95		70-130	2		20
trans-1,2-Dichloroethene	98		98		70-130	0		20
Trichloroethene	92		91		70-130	1		20
1,2-Dichlorobenzene	90		91		70-130	1		20
1,3-Dichlorobenzene	89		92		70-130	3		20
1,4-Dichlorobenzene	91		92		70-130	1		20
Methyl tert butyl ether	89		86		70-130	3		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	99		94		70-130	5		20
Dibromomethane	94		93		70-130	1		20
1,2,3-Trichloropropane	89		90		70-130	1		20
Styrene	90		85		70-130	6		20
Dichlorodifluoromethane	91		90		70-130	1		20
Acetone	87		95		70-130	9		20
Carbon disulfide	99		99		70-130	0		20
Methyl ethyl ketone	81		80		70-130	1		20
Methyl isobutyl ketone	81		78		70-130	4		20
2-Hexanone	78		81		70-130	4		20
Bromochloromethane	100		98		70-130	2		20
Tetrahydrofuran	88		88		70-130	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251964.11

Lab Number: L2517179

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG2047245-3 WG2047245-4								
2,2-Dichloropropane	93		91		70-130	2		20
1,2-Dibromoethane	89		88		70-130	1		20
1,3-Dichloropropane	90		88		70-130	2		20
1,1,1,2-Tetrachloroethane	86		85		70-130	1		20
Bromobenzene	90		90		70-130	0		20
n-Butylbenzene	94		94		70-130	0		20
sec-Butylbenzene	92		93		70-130	1		20
tert-Butylbenzene	91		91		70-130	0		20
o-Chlorotoluene	92		92		70-130	0		20
p-Chlorotoluene	91		93		70-130	2		20
1,2-Dibromo-3-chloropropane	84		82		70-130	2		20
Hexachlorobutadiene	82		86		70-130	5		20
Isopropylbenzene	91		93		70-130	2		20
p-Isopropyltoluene	92		91		70-130	1		20
Naphthalene	87		89		70-130	2		20
n-Propylbenzene	92		94		70-130	2		20
1,2,3-Trichlorobenzene	87		90		70-130	3		20
1,2,4-Trichlorobenzene	87		86		70-130	1		20
1,3,5-Trimethylbenzene	90		92		70-130	2		20
1,2,4-Trimethylbenzene	90		92		70-130	2		20
Diethyl ether	94		91		70-130	3		20
Diisopropyl Ether	90		87		70-130	3		20
Ethyl-Tert-Butyl-Ether	86		82		70-130	5		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Lab Number: L2517179

Project Number: 30251964.11

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG2047245-3 WG2047245-4								
Tertiary-Amyl Methyl Ether	84		82		70-130	2		20
1,4-Dioxane	82		90		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	105		103		70-130

PETROLEUM HYDROCARBONS

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-01

Client ID: MW-3

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Date Collected: 03/24/25 10:30

Date Received: 03/24/25

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 135,EPH-19-2.1

Analytical Date: 03/28/25 12:14

Analyst: SBR

M.S. Analytical Date: 03/28/25 16:21

M.S. Analyst: RP

Extraction Method: EPA 3510C

Extraction Date: 03/27/25 23:27

Cleanup Method1: EPH-19-2.1

Cleanup Date1: 03/28/25

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/Targets via GCMS-SIM - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-01

Date Collected: 03/24/25 10:30

Client ID: MW-3

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/Targets via GCMS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	67		40-140
o-Terphenyl	70		40-140
2-Fluorobiphenyl	74		40-140
2-Bromonaphthalene	75		40-140
O-Terphenyl-MS	85		40-140

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-02

Client ID: MW-4

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Date Collected: 03/24/25 12:15

Date Received: 03/24/25

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 135,EPH-19-2.1

Analytical Date: 03/28/25 12:39

Analyst: SBR

M.S. Analytical Date: 03/28/25 16:38

M.S. Analyst: RP

Extraction Method: EPA 3510C

Extraction Date: 03/27/25 23:27

Cleanup Method1: EPH-19-2.1

Cleanup Date1: 03/28/25

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/Targets via GCMS-SIM - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-02

Date Collected: 03/24/25 12:15

Client ID: MW-4

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/Targets via GCMS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	71		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	78		40-140
O-Terphenyl-MS	84		40-140

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-03

Client ID: MW-5

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Date Collected: 03/24/25 15:15

Date Received: 03/24/25

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 135,EPH-19-2.1

Analytical Date: 03/28/25 13:04

Analyst: SBR

M.S. Analytical Date: 03/28/25 16:54

M.S. Analyst: RP

Extraction Method: EPA 3510C

Extraction Date: 03/27/25 23:27

Cleanup Method1: EPH-19-2.1

Cleanup Date1: 03/28/25

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/Targets via GCMS-SIM - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	0.456		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-03

Date Collected: 03/24/25 15:15

Client ID: MW-5

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/Targets via GCMS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	61		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	71		40-140
2-Bromonaphthalene	73		40-140
O-Terphenyl-MS	76		40-140

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-04

Client ID: DUP-01

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Date Collected: 03/24/25 12:15

Date Received: 03/24/25

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 135,EPH-19-2.1

Analytical Date: 03/28/25 13:29

Analyst: SBR

M.S. Analytical Date: 03/28/25 17:11

M.S. Analyst: RP

Extraction Method: EPA 3510C

Extraction Date: 03/27/25 23:27

Cleanup Method1: EPH-19-2.1

Cleanup Date1: 03/28/25

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/Targets via GCMS-SIM - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.426	--	1
2-Methylnaphthalene	ND		ug/l	0.426	--	1
Acenaphthylene	ND		ug/l	0.426	--	1
Acenaphthene	ND		ug/l	0.426	--	1
Fluorene	ND		ug/l	0.426	--	1
Phenanthrene	ND		ug/l	0.426	--	1
Anthracene	ND		ug/l	0.426	--	1
Fluoranthene	ND		ug/l	0.426	--	1
Pyrene	ND		ug/l	0.426	--	1
Benzo(a)anthracene	ND		ug/l	0.426	--	1
Chrysene	ND		ug/l	0.426	--	1
Benzo(b)fluoranthene	ND		ug/l	0.426	--	1
Benzo(k)fluoranthene	ND		ug/l	0.426	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.426	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.426	--	1
Benzo(ghi)perylene	ND		ug/l	0.426	--	1



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-04

Date Collected: 03/24/25 12:15

Client ID: DUP-01

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/Targets via GCMS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	52		40-140
o-Terphenyl	48		40-140
2-Fluorobiphenyl	59		40-140
2-Bromonaphthalene	60		40-140
O-Terphenyl-MS	56		40-140

Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Method Blank Analysis Batch Quality Control

Analytical Method: 135,EPH-19-2.1
 Analytical Date: 03/28/25 11:49
 Analyst: SBR

M.S. Analytical Date: 03/28/25 16:04
 M.S. Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 03/27/25 23:27
 Cleanup Method: EPH-19-2.1
 Cleanup Date: 03/28/25

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/Targets via GCMS-SIM - Westborough Lab for sample(s): 01-04 Batch: WG2046241-1					
C9-C18 Aliphatics	ND		ug/l	100	--
C19-C36 Aliphatics	ND		ug/l	100	--
C11-C22 Aromatics	ND		ug/l	100	--
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--
Naphthalene	ND		ug/l	0.400	--
2-Methylnaphthalene	ND		ug/l	0.400	--
Acenaphthylene	ND		ug/l	0.400	--
Acenaphthene	ND		ug/l	0.400	--
Fluorene	ND		ug/l	0.400	--
Phenanthrene	ND		ug/l	0.400	--
Anthracene	ND		ug/l	0.400	--
Fluoranthene	ND		ug/l	0.400	--
Pyrene	ND		ug/l	0.400	--
Benzo(a)anthracene	ND		ug/l	0.400	--
Chrysene	ND		ug/l	0.400	--
Benzo(b)fluoranthene	ND		ug/l	0.400	--
Benzo(k)fluoranthene	ND		ug/l	0.400	--
Benzo(a)pyrene	ND		ug/l	0.200	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--
Benzo(ghi)perylene	ND		ug/l	0.400	--

Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 135,EPH-19-2.1
Analytical Date: 03/28/25 11:49
Analyst: SBR

M.S. Analytical Date: 03/28/25 16:04
M.S. Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/27/25 23:27
Cleanup Method: EPH-19-2.1
Cleanup Date: 03/28/25

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/Targets via GCMS-SIM - Westborough Lab for sample(s): 01-04 Batch: WG2046241-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	54		40-140
o-Terphenyl	72		40-140
2-Fluorobiphenyl	76		40-140
2-Bromonaphthalene	77		40-140
O-Terphenyl-MS	85		40-140

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Lab Number: L2517179

Project Number: 30251964.11

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
EPH w/Targets via GCMS-SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG2046241-2 WG2046241-3								
C9-C18 Aliphatics	65		60		40-140	8		20
C19-C36 Aliphatics	80		79		40-140	1		20
C11-C22 Aromatics	75		79		40-140	5		20
Naphthalene	72		73		40-140	1		20
2-Methylnaphthalene	79		82		40-140	4		20
Acenaphthylene	77		84		40-140	9		20
Acenaphthene	81		85		40-140	5		20
Fluorene	84		90		40-140	7		20
Phenanthrene	83		88		40-140	6		20
Anthracene	86		90		40-140	5		20
Fluoranthene	88		95		40-140	8		20
Pyrene	89		96		40-140	8		20
Benzo(a)anthracene	83		90		40-140	8		20
Chrysene	83		88		40-140	6		20
Benzo(b)fluoranthene	85		98		40-140	14		20
Benzo(k)fluoranthene	91		92		40-140	1		20
Benzo(a)pyrene	94		101		40-140	7		20
Indeno(1,2,3-cd)Pyrene	83		89		40-140	7		20
Dibenzo(a,h)anthracene	93		99		40-140	6		20
Benzo(ghi)perylene	85		91		40-140	7		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Lab Number: L2517179

Project Number: 30251964.11

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

EPH w/Targets via GCMS-SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG2046241-2 WG2046241-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	66		67		40-140
o-Terphenyl	69		75		40-140
2-Fluorobiphenyl	71		76		40-140
2-Bromonaphthalene	71		79		40-140
O-Terphenyl-MS	84		89		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

METALS

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-01

Date Collected: 03/24/25 10:30

Client ID: MW-3

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 17:25	EPA 3005A	97,6020B	WKP
Arsenic, Total	ND		mg/l	0.0050	--	1	03/28/25 10:15	03/30/25 19:39	EPA 3005A	97,6010D	MRP
Barium, Total	0.0556		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:39	EPA 3005A	97,6010D	MRP
Beryllium, Total	ND		mg/l	0.0005	--	1	03/28/25 10:15	03/30/25 17:25	EPA 3005A	97,6020B	WKP
Cadmium, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 19:39	EPA 3005A	97,6010D	MRP
Chromium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:39	EPA 3005A	97,6010D	MRP
Lead, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:39	EPA 3005A	97,6010D	MRP
Mercury, Total	ND		mg/l	0.0002	--	1	03/28/25 11:47	03/31/25 10:58	EPA 7470A	97,7470A	MJR
Nickel, Total	ND		mg/l	0.0250	--	1	03/28/25 10:15	03/30/25 19:39	EPA 3005A	97,6010D	MRP
Selenium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:39	EPA 3005A	97,6010D	MRP
Silver, Total	ND		mg/l	0.0070	--	1	03/28/25 10:15	03/30/25 19:39	EPA 3005A	97,6010D	MRP
Thallium, Total	ND		mg/l	0.0010	--	1	03/28/25 10:15	03/30/25 17:25	EPA 3005A	97,6020B	WKP
Vanadium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:39	EPA 3005A	97,6010D	MRP
Zinc, Total	ND		mg/l	0.0500	--	1	03/28/25 10:15	03/30/25 19:39	EPA 3005A	97,6010D	MRP



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-02

Date Collected: 03/24/25 12:15

Client ID: MW-4

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 17:30	EPA 3005A	97,6020B	WKP
Arsenic, Total	ND		mg/l	0.0050	--	1	03/28/25 10:15	03/30/25 19:44	EPA 3005A	97,6010D	MRP
Barium, Total	0.0382		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:44	EPA 3005A	97,6010D	MRP
Beryllium, Total	ND		mg/l	0.0005	--	1	03/28/25 10:15	03/30/25 17:30	EPA 3005A	97,6020B	WKP
Cadmium, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 19:44	EPA 3005A	97,6010D	MRP
Chromium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:44	EPA 3005A	97,6010D	MRP
Lead, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:44	EPA 3005A	97,6010D	MRP
Mercury, Total	ND		mg/l	0.0002	--	1	03/28/25 11:47	03/31/25 11:01	EPA 7470A	97,7470A	MJR
Nickel, Total	ND		mg/l	0.0250	--	1	03/28/25 10:15	03/30/25 19:44	EPA 3005A	97,6010D	MRP
Selenium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:44	EPA 3005A	97,6010D	MRP
Silver, Total	ND		mg/l	0.0070	--	1	03/28/25 10:15	03/30/25 19:44	EPA 3005A	97,6010D	MRP
Thallium, Total	ND		mg/l	0.0010	--	1	03/28/25 10:15	03/30/25 17:30	EPA 3005A	97,6020B	WKP
Vanadium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:44	EPA 3005A	97,6010D	MRP
Zinc, Total	ND		mg/l	0.0500	--	1	03/28/25 10:15	03/30/25 19:44	EPA 3005A	97,6010D	MRP



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-03

Date Collected: 03/24/25 15:15

Client ID: MW-5

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 17:35	EPA 3005A	97,6020B	WKP
Arsenic, Total	ND		mg/l	0.0050	--	1	03/28/25 10:15	03/30/25 19:49	EPA 3005A	97,6010D	MRP
Barium, Total	0.0130		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:49	EPA 3005A	97,6010D	MRP
Beryllium, Total	ND		mg/l	0.0005	--	1	03/28/25 10:15	03/30/25 17:35	EPA 3005A	97,6020B	WKP
Cadmium, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 19:49	EPA 3005A	97,6010D	MRP
Chromium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:49	EPA 3005A	97,6010D	MRP
Lead, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:49	EPA 3005A	97,6010D	MRP
Mercury, Total	ND		mg/l	0.0002	--	1	03/28/25 11:47	03/31/25 11:04	EPA 7470A	97,7470A	MJR
Nickel, Total	ND		mg/l	0.0250	--	1	03/28/25 10:15	03/30/25 19:49	EPA 3005A	97,6010D	MRP
Selenium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:49	EPA 3005A	97,6010D	MRP
Silver, Total	ND		mg/l	0.0070	--	1	03/28/25 10:15	03/30/25 19:49	EPA 3005A	97,6010D	MRP
Thallium, Total	ND		mg/l	0.0010	--	1	03/28/25 10:15	03/30/25 17:35	EPA 3005A	97,6020B	WKP
Vanadium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:49	EPA 3005A	97,6010D	MRP
Zinc, Total	ND		mg/l	0.0500	--	1	03/28/25 10:15	03/30/25 19:49	EPA 3005A	97,6010D	MRP



Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25**SAMPLE RESULTS**

Lab ID: L2517179-04

Date Collected: 03/24/25 12:15

Client ID: DUP-01

Date Received: 03/24/25

Sample Location: 525 GIFFORD ST. FALMOUTH, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 17:40	EPA 3005A	97,6020B	WKP
Arsenic, Total	ND		mg/l	0.0050	--	1	03/28/25 10:15	03/30/25 19:54	EPA 3005A	97,6010D	MRP
Barium, Total	0.0376		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:54	EPA 3005A	97,6010D	MRP
Beryllium, Total	ND		mg/l	0.0005	--	1	03/28/25 10:15	03/30/25 17:40	EPA 3005A	97,6020B	WKP
Cadmium, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 19:54	EPA 3005A	97,6010D	MRP
Chromium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:54	EPA 3005A	97,6010D	MRP
Lead, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:54	EPA 3005A	97,6010D	MRP
Mercury, Total	ND		mg/l	0.0002	--	1	03/28/25 11:47	03/31/25 11:07	EPA 7470A	97,7470A	MJR
Nickel, Total	ND		mg/l	0.0250	--	1	03/28/25 10:15	03/30/25 19:54	EPA 3005A	97,6010D	MRP
Selenium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:54	EPA 3005A	97,6010D	MRP
Silver, Total	ND		mg/l	0.0070	--	1	03/28/25 10:15	03/30/25 19:54	EPA 3005A	97,6010D	MRP
Thallium, Total	ND		mg/l	0.0010	--	1	03/28/25 10:15	03/30/25 17:40	EPA 3005A	97,6020B	WKP
Vanadium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/30/25 19:54	EPA 3005A	97,6010D	MRP
Zinc, Total	ND		mg/l	0.0500	--	1	03/28/25 10:15	03/30/25 19:54	EPA 3005A	97,6010D	MRP



Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Lab Number: L2517179
Report Date: 04/02/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2046440-1										
Arsenic, Total	ND		mg/l	0.0050	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Barium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Cadmium, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Nickel, Total	ND		mg/l	0.0250	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Vanadium, Total	ND		mg/l	0.0100	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/28/25 10:15	03/28/25 14:05	97,6010D	DMC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2046443-1										
Antimony, Total	ND		mg/l	0.0040	--	1	03/28/25 10:15	03/30/25 16:18	97,6020B	WKP
Beryllium, Total	ND		mg/l	0.0005	--	1	03/28/25 10:15	03/30/25 16:18	97,6020B	WKP
Thallium, Total	ND		mg/l	0.0010	--	1	03/28/25 10:15	03/30/25 16:18	97,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2046445-1										
Mercury, Total	ND		mg/l	0.0002	--	1	03/28/25 11:47	03/28/25 14:39	97,7470A	MJR



Project Name: TROTting PARK FIELDS

Lab Number: L2517179

Project Number: 30251964.11

Report Date: 04/02/25

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis **Batch Quality Control**

Project Name: TROTting PARK FIELDS

Project Number: 30251964.11

Lab Number: L2517179

Report Date: 04/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2046440-2 WG2046440-3								
Arsenic, Total	92		92		80-120	0		20
Barium, Total	101		101		80-120	0		20
Cadmium, Total	103		103		80-120	0		20
Chromium, Total	105		104		80-120	1		20
Lead, Total	98		99		80-120	1		20
Nickel, Total	104		104		80-120	0		20
Selenium, Total	89		88		80-120	1		20
Silver, Total	103		102		80-120	1		20
Vanadium, Total	105		105		80-120	0		20
Zinc, Total	103		103		80-120	0		20
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2046443-2 WG2046443-3								
Antimony, Total	98		100		80-120	2		20
Beryllium, Total	108		109		80-120	1		20
Thallium, Total	92		94		80-120	2		20
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2046445-2 WG2046445-3								
Mercury, Total	95		95		80-120	0		20

Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Serial_No:04022516:28
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Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2517179-01A	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-01B	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-01C	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-01D	Plastic 250ml HNO3 preserved	A	<2	<2	3.8	Y	Absent		MCP-CR-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2517179-01E	Amber 1L HCl preserved	A	<2	<2	3.8	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2517179-01F	Amber 1L HCl preserved	A	<2	<2	3.8	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2517179-02A	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-02B	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-02C	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-02D	Plastic 250ml HNO3 preserved	A	<2	<2	3.8	Y	Absent		MCP-CR-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2517179-02E	Amber 1L HCl preserved	A	<2	<2	3.8	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2517179-02F	Amber 1L HCl preserved	A	<2	<2	3.8	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2517179-03A	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-03B	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-03C	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)

Project Name: TROTting PARK FIELDS
Project Number: 30251964.11

Serial_No:04022516:28
Lab Number: L2517179
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2517179-03D	Plastic 250ml HNO3 preserved	A	<2	<2	3.8	Y	Absent		MCP-CR-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2517179-03E	Amber 1L HCl preserved	A	<2	<2	3.8	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2517179-03F	Amber 1L HCl preserved	A	<2	<2	3.8	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2517179-04A	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-04B	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-04C	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-04D	Plastic 250ml HNO3 preserved	A	<2	<2	3.8	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7470T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2517179-04E	Amber 1L HCl preserved	A	<2	<2	3.8	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2517179-04F	Amber 1L HCl preserved	A	<2	<2	3.8	Y	Absent		EPHD-GC-20(14),EPH-MS-20(14)
L2517179-05A	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)
L2517179-05B	Vial HCl preserved	A	NA		3.8	Y	Absent		MCP-8260-21(14)

Project Name: TROTting PARK FIELDS
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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: TROTting PARK FIELDS
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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: TROTting PARK FIELDS
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Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TROTting PARK FIELDS**Lab Number:** L2517179**Project Number:** 30251964.11**Report Date:** 04/02/25

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSCCAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010; WSC-CAM-IIIA and IIID, January 2024; WSC-CAM-IIIB and VA, February 2024; WSC-CAM-VB and VC, April 2024; and WSC-CAM-VIA, VIB, IXA, and IXB, October 2024.
- 135 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, December 2019, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, March 1, 2020.
- 141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).**Microbiology:** SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

Pace Analytical Services LLCID No.: **17873**Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: Certificate/Approval Program Summary

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.



-01
-02
-03
-04

Method Blank Summary Form 4 Volatiles

Client	: Arcadis G&M, Inc.	Lab Number	: L2517179
Project Name	: TROTting PARK FIELDS	Project Number	: 30251964.11
Lab Sample ID	: WG2046428-5	Lab File ID	: V16250327A17
Instrument ID	: VOA116		
Matrix	: WATER	Analysis Date	: 03/27/25 09:32

Client Sample No.	Lab Sample ID	Analysis Date
WG2046428-3LCS	WG2046428-3	03/27/25 03:13
WG2046428-4LCSD	WG2046428-4	03/27/25 03:36
TRIP BLANK	L2517179-05	03/27/25 09:55

Method Blank Summary Form 4 Volatiles

Client	: Arcadis G&M, Inc.	Lab Number	: L2517179
Project Name	: TROTting PARK FIELDS	Project Number	: 30251964.11
Lab Sample ID	: WG2047245-5	Lab File ID	: J250329A05
Instrument ID	: JACK		
Matrix	: WATER	Analysis Date	: 03/29/25 05:40

Client Sample No.	Lab Sample ID	Analysis Date
WG2047245-3LCS	WG2047245-3	03/29/25 04:20
WG2047245-4LCSD	WG2047245-4	03/29/25 04:47
MW-3	L2517179-01	03/29/25 09:40
MW-4	L2517179-02	03/29/25 10:07
MW-5	L2517179-03	03/29/25 10:34
DUP-01	L2517179-04	03/29/25 11:00

Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : VOA116
 Lab File ID : V16250327A01
 Sample No : WG2046428-2
 Channel :

Lab Number : L2517179
 Project Number : 30251964.11
 Calibration Date : 03/27/25 03:13
 Init. Calib. Date(s) : 02/21/25 02/21/25
 Init. Calib. Times : 04:15 07:00

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	79	0
Dichlorodifluoromethane	0.221	0.194	-	12.2	20	69	0
Chloromethane	0.19	0.206	-	-8.4	20	81	0
Vinyl chloride	0.255	0.203	-	20.4*	20	59	0
Bromomethane	0.151	0.117	-	22.5*	20	65	0
Chloroethane	0.156	0.121	-	22.4*	20	60	0
Trichlorofluoromethane	0.285	0.291	-	-2.1	20	77	0
Ethyl ether	0.067	0.064	-	4.5	20	74	0
1,1-Dichloroethene	0.155	0.147	-	5.2	20	74	0
Carbon disulfide	0.495	0.493	-	0.4	20	78	0
Freon-113	0.175	0.175	-	0	20	79	0
Acrolein	0.016	0.015	-	6.3	20	71	0
Methylene chloride	0.177	0.167	-	5.6	20	75	0
Acetone	0.027	0.031	-	-14.8	20	82	0
trans-1,2-Dichloroethene	0.171	0.168	-	1.8	20	76	0
Methyl acetate	0.065	0.071	-	-9.2	20	88	0
Methyl tert-butyl ether	0.306	0.289	-	5.6	20	78	0
tert-Butyl alcohol	0.00485	0.006*	-	-23.7*	20	96	0
Diisopropyl ether	0.496	0.527	-	-6.3	20	86	0
1,1-Dichloroethane	0.306	0.313	-	-2.3	20	82	0
Halothane	0.141	0.138	-	2.1	20	75	0
Acrylonitrile	0.031	0.035	-	-12.9	20	80	0
Ethyl tert-butyl ether	0.38	0.368	-	3.2	20	81	0
Vinyl acetate	0.305	0.311	-	-2	20	88	0
cis-1,2-Dichloroethene	0.192	0.178*	-	7.3	20	74	0
2,2-Dichloropropane	0.224	0.221	-	1.3	20	85	0
Bromochloromethane	0.096	0.09*	-	6.3	20	73	0
Cyclohexane	0.294	0.312	-	-6.1	20	85	0
Chloroform	0.34	0.333	-	2.1	20	76	0
Ethyl acetate	0.097	0.103	-	-6.2	20	87	0
Carbon tetrachloride	0.284	0.285	-	-0.4	20	81	0
Tetrahydrofuran	0.032	0.037	-	-15.6	20	95	0
Dibromofluoromethane	0.295	0.289	-	2	20	77	0
1,1,1-Trichloroethane	0.287	0.279	-	2.8	20	76	0
2-Butanone	0.041	0.042	-	-2.4	20	83	0
1,1-Dichloropropene	0.222	0.215	-	3.2	20	76	0
Benzene	0.655	0.642	-	2	20	75	0
tert-Amyl methyl ether	0.332	0.298	-	10.2	20	79	0
1,2-Dichloroethane-d4	0.303	0.308	-	-1.7	20	75	0
1,2-Dichloroethane	0.223	0.238	-	-6.7	20	82	0
Methyl cyclohexane	0.337	0.316	-	6.2	20	76	0
Trichloroethene	0.203	0.191*	-	5.9	20	76	0
Dibromomethane	0.105	0.098	-	6.7	20	72	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : VOA116
 Lab File ID : V16250327A01
 Sample No : WG2046428-2
 Channel :

Lab Number : L2517179
 Project Number : 30251964.11
 Calibration Date : 03/27/25 03:13
 Init. Calib. Date(s) : 02/21/25 02/21/25
 Init. Calib. Times : 04:15 07:00

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.176	0.178*	-	-1.1	20	77	0
2-Chloroethyl vinyl ether	0.079	0.059	-	25.3*	20	65	0
Bromodichloromethane	0.271	0.265*	-	2.2	20	79	0
1,4-Dioxane	0.00081	0.00092*	-	-13.6	20	78	0
cis-1,3-Dichloropropene	10	8.812	-	11.9	20	76	0
Chlorobenzene-d5	1	1	-	0	20	74	0
Toluene-d8	1.17	1.319	-	-12.7	20	76	0
Toluene	0.516	0.547	-	-6	20	74	0
4-Methyl-2-pentanone	0.037	0.037	-	0	20	79	0
Tetrachloroethene	0.253	0.294	-	-16.2	20	79	0
trans-1,3-Dichloropropene	10	9.803	-	2	20	75	0
Ethyl methacrylate	0.146	0.135	-	7.5	20	74	0
1,1,2-Trichloroethane	0.131	0.141*	-	-7.6	20	73	0
Chlorodibromomethane	0.222	0.238	-	-7.2	20	74	0
1,3-Dichloropropane	0.259	0.285	-	-10	20	73	0
1,2-Dibromoethane	0.158	0.165*	-	-4.4	20	71	0
2-Hexanone	0.063	0.07	-	-11.1	20	84	0
Chlorobenzene	0.615	0.66	-	-7.3	20	74	0
Ethylbenzene	1.012	1.098	-	-8.5	20	75	0
1,1,1,2-Tetrachloroethane	0.223	0.243	-	-9	20	76	0
p/m Xylene	0.407	0.434	-	-6.6	20	73	0
o Xylene	0.391	0.42	-	-7.4	20	73	0
Styrene	0.651	0.705	-	-8.3	20	74	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	76	0
Bromoform	0.244	0.249	-	-2	20	82	0
Isopropylbenzene	2.007	1.811	-	9.8	20	73	0
4-Bromofluorobenzene	0.765	0.752	-	1.7	20	76	0
Bromobenzene	0.486	0.476	-	2.1	20	76	0
n-Propylbenzene	2.303	2.255	-	2.1	20	75	0
1,4-Dichlorobutane	0.439	0.426	-	3	20	78	0
1,1,2,2-Tetrachloroethane	0.332	0.325	-	2.1	20	74	0
4-Ethyltoluene	1.916	1.867	-	2.6	20	74	0
2-Chlorotoluene	1.568	1.535	-	2.1	20	76	0
1,3,5-Trimethylbenzene	1.64	1.583	-	3.5	20	73	0
1,2,3-Trichloropropane	0.254	0.249	-	2	20	75	0
trans-1,4-Dichloro-2-buten	0.089	0.097	-	-9	20	83	0
4-Chlorotoluene	1.38	1.355	-	1.8	20	75	0
tert-Butylbenzene	1.439	1.402	-	2.6	20	74	0
1,2,4-Trimethylbenzene	1.567	1.52	-	3	20	73	0
sec-Butylbenzene	2.178	2.137	-	1.9	20	74	0
p-Isopropyltoluene	1.932	1.903	-	1.5	20	73	0
1,3-Dichlorobenzene	0.994	0.996	-	-0.2	20	78	0
1,4-Dichlorobenzene	0.995	1.002	-	-0.7	20	77	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : VOA116
 Lab File ID : V16250327A01
 Sample No : WG2046428-2
 Channel :

Lab Number : L2517179
 Project Number : 30251964.11
 Calibration Date : 03/27/25 03:13
 Init. Calib. Date(s) : 02/21/25 02/21/25
 Init. Calib. Times : 04:15 07:00

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.159	1.031	-	11	20	73	0
n-Butylbenzene	1.621	1.577	-	2.7	20	76	0
1,2-Dichlorobenzene	0.893	0.886	-	0.8	20	76	0
1,2,4,5-Tetramethylbenzene	1.515	1.351	-	10.8	20	74	0
1,2-Dibromo-3-chloropropan	0.049	0.049	-	0	20	76	0
1,3,5-Trichlorobenzene	0.681	0.707	-	-3.8	20	80	0
Hexachlorobutadiene	0.264	0.288	-	-9.1	20	84	0
1,2,4-Trichlorobenzene	0.554	0.532	-	4	20	76	0
Naphthalene	0.869	0.776	-	10.7	20	70	0
1,2,3-Trichlorobenzene	0.466	0.465	-	0.2	20	75	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : JACK
 Lab File ID : J250329A02
 Sample No : WG2047245-2
 Channel :

Lab Number : L2517179
 Project Number : 30251964.11
 Calibration Date : 03/29/25 04:20
 Init. Calib. Date(s) : 02/28/25 02/28/25
 Init. Calib. Times : 05:35 08:42

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	84	0
Dichlorodifluoromethane	0.28	0.254	-	9.3	20	74	0
Chloromethane	0.294	0.272	-	7.5	20	77	0
Vinyl chloride	0.352	0.392	-	-11.4	20	90	0
Bromomethane	0.178	0.147	-	17.4	20	71	0
Chloroethane	0.189	0.223	-	-18	20	96	0
Trichlorofluoromethane	0.411	0.398	-	3.2	20	78	0
Ethyl ether	0.116	0.109	-	6	20	78	0
1,1-Dichloroethene	0.228	0.221	-	3.1	20	81	0
Carbon disulfide	0.7	0.695	-	0.7	20	83	0
Freon-113	0.246	0.244	-	0.8	20	83	0
Acrolein	0.041	0.038	-	7.3	20	81	0
Methylene chloride	0.247	0.24	-	2.8	20	82	0
Acetone	0.077	0.067	-	13	20	77	0
trans-1,2-Dichloroethene	0.247	0.242	-	2	20	80	0
Methyl acetate	0.167	0.147	-	12	20	76	0
Methyl tert-butyl ether	0.682	0.607	-	11	20	75	0
tert-Butyl alcohol	0.026	0.02	-	23.1*	20	57	0
Diisopropyl ether	0.875	0.785	-	10.3	20	76	0
1,1-Dichloroethane	0.492	0.471	-	4.3	20	80	0
Halothane	0.201	0.192	-	4.5	20	78	.01
Acrylonitrile	0.082	0.078	-	4.9	20	79	0
Ethyl tert-butyl ether	0.785	0.673	-	14.3	20	73	0
Vinyl acetate	0.688	0.593	-	13.8	20	74	0
cis-1,2-Dichloroethene	0.272	0.271	-	0.4	20	83	0
2,2-Dichloropropane	0.423	0.394	-	6.9	20	79	0
Bromochloromethane	0.122	0.122	-	0	20	80	0
Cyclohexane	0.51	0.483	-	5.3	20	80	0
Chloroform	0.462	0.439	-	5	20	81	0
Ethyl acetate	0.269	0.229	-	14.9	20	71	0
Carbon tetrachloride	0.363	0.354	-	2.5	20	79	0
Tetrahydrofuran	0.095	0.084	-	11.6	20	72	0
Dibromofluoromethane	0.264	0.277	-	-4.9	20	87	0
1,1,1-Trichloroethane	0.408	0.394	-	3.4	20	81	0
2-Butanone	0.121	0.098	-	19	20	70	0
1,1-Dichloropropene	0.335	0.316	-	5.7	20	78	0
Benzene	1.011	0.957	-	5.3	20	80	0
tert-Amyl methyl ether	0.688	0.579	-	15.8	20	70	0
1,2-Dichloroethane-d4	0.324	0.319	-	1.5	20	84	0
1,2-Dichloroethane	0.355	0.333	-	6.2	20	78	0
Methyl cyclohexane	0.47	0.429	-	8.7	20	79	0
Trichloroethene	0.271	0.251	-	7.4	20	77	0
Dibromomethane	0.153	0.143	-	6.5	20	76	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : JACK
 Lab File ID : J250329A02
 Sample No : WG2047245-2
 Channel :

Lab Number : L2517179
 Project Number : 30251964.11
 Calibration Date : 03/29/25 04:20
 Init. Calib. Date(s) : 02/28/25 02/28/25
 Init. Calib. Times : 05:35 08:42

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.262	0.245	-	6.5	20	73	0
2-Chloroethyl vinyl ether	0.159	0.116	-	27*	20	58	0
Bromodichloromethane	0.344	0.304	-	11.6	20	71	0
1,4-Dioxane	0.00217	0.0018*	-	17.1	20	71	0
cis-1,3-Dichloropropene	0.409	0.377	-	7.8	20	73	0
Chlorobenzene-d5	1	1	-	0	20	85	0
Toluene-d8	1.318	1.318	-	0	20	86	0
Toluene	0.882	0.794	-	10	20	77	0
4-Methyl-2-pentanone	0.125	0.102	-	18.4	20	67	0
Tetrachloroethene	0.411	0.354	-	13.9	20	73	0
trans-1,3-Dichloropropene	0.495	0.429	-	13.3	20	71	0
Ethyl methacrylate	0.424	0.349	-	17.7	20	66	0
1,1,2-Trichloroethane	0.262	0.236	-	9.9	20	71	0
Chlorodibromomethane	0.365	0.311	-	14.8	20	69	0
1,3-Dichloropropane	0.486	0.435	-	10.5	20	74	0
1,2-Dibromoethane	0.295	0.262	-	11.2	20	72	0
2-Hexanone	0.255	0.198	-	22.4*	20	62	0
Chlorobenzene	0.973	0.88	-	9.6	20	74	0
Ethylbenzene	1.752	1.589	-	9.3	20	76	0
1,1,1,2-Tetrachloroethane	0.357	0.308	-	13.7	20	71	0
p/m Xylene	0.685	0.614	-	10.4	20	76	0
o Xylene	0.658	0.591	-	10.2	20	76	0
Styrene	1.121	0.983	-	12.3	20	73	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	84	0
Bromoform	0.441	0.376	-	14.7	20	66	0
Isopropylbenzene	3.009	2.749	-	8.6	20	74	0
4-Bromofluorobenzene	0.855	0.836	-	2.2	20	83	0
Bromobenzene	0.72	0.647	-	10.1	20	71	0
n-Propylbenzene	3.645	3.374	-	7.4	20	76	0
1,4-Dichlorobutane	0.953	0.811	-	14.9	20	69	0
1,1,2,2-Tetrachloroethane	0.7	0.622	-	11.1	20	68	0
4-Ethyltoluene	2.97	2.778	-	6.5	20	77	0
2-Chlorotoluene	2.404	2.202	-	8.4	20	75	0
1,3,5-Trimethylbenzene	2.587	2.335	-	9.7	20	74	0
1,2,3-Trichloropropane	0.56	0.5	-	10.7	20	70	0
trans-1,4-Dichloro-2-buten	0.238	0.199	-	16.4	20	64	0
4-Chlorotoluene	2.179	1.985	-	8.9	20	73	0
tert-Butylbenzene	2.151	1.956	-	9.1	20	75	0
1,2,4-Trimethylbenzene	2.516	2.278	-	9.5	20	74	0
sec-Butylbenzene	3.283	3.016	-	8.1	20	76	0
p-Isopropyltoluene	2.792	2.561	-	8.3	20	75	0
1,3-Dichlorobenzene	1.47	1.312	-	10.7	20	72	0
1,4-Dichlorobenzene	1.47	1.335	-	9.2	20	73	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Arcadis G&M, Inc.
 Project Name : TROTting PARK FIELDS
 Instrument ID : JACK
 Lab File ID : J250329A02
 Sample No : WG2047245-2
 Channel :

Lab Number : L2517179
 Project Number : 30251964.11
 Calibration Date : 03/29/25 04:20
 Init. Calib. Date(s) : 02/28/25 02/28/25
 Init. Calib. Times : 05:35 08:42

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.637	1.49	-	9	20	74	0
n-Butylbenzene	2.502	2.36	-	5.7	20	78	0
1,2-Dichlorobenzene	1.362	1.227	-	9.9	20	72	0
1,2,4,5-Tetramethylbenzene	2.513	2.169	-	13.7	20	72	0
1,2-Dibromo-3-chloropropan	0.133	0.112	-	15.8	20	67	0
1,3,5-Trichlorobenzene	1.072	0.94	-	12.3	20	72	0
Hexachlorobutadiene	0.458	0.377	-	17.7	20	71	0
1,2,4-Trichlorobenzene	0.948	0.823	-	13.2	20	72	0
Naphthalene	2.388	2.08	-	12.9	20	71	0
1,2,3-Trichlorobenzene	0.868	0.756	-	12.9	20	71	0

* Value outside of QC limits.



Appendix E

Soil Boring and Monitoring Well Completion Logs

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 1

Description:

Boring 1 refusal at 13.5 ft, landfill material at 8 inches, bottom five feet less debris

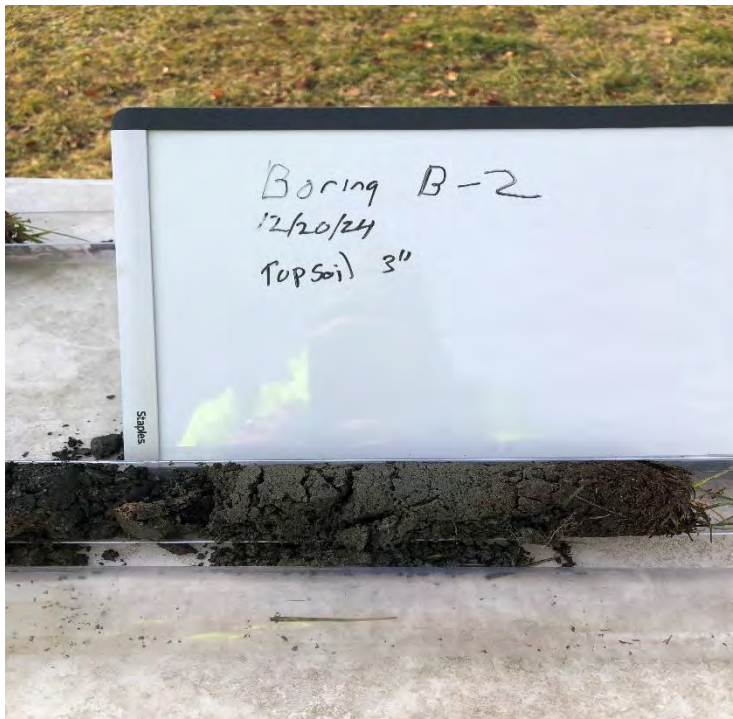
Location:

Trotting baseball field
outside fence below
parking lot.
Falmouth MA

Photograph taken by:

James Luker

Date: 12/20/2024



Photograph: 2

Description:

Boring 2, thin topsoil
layer over landfill
material

Location:

Trotting Baseball field
Field 2
Falmouth MS

Photograph taken by:

James Luker

Date: 12/20/2024

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 3

Description:
Boring 3, landfill
material at 7 inches

Location:
Trotting Baseball field,
Field 2

Photograph taken by:
James Luker

Date: 12/20/2024



Photograph: 4

Description:
Boring 4 advanced to
15 feet black landfill
debris at 15 feet.

Location:
Trotting baseball field,
Field 2

Photograph taken by:
James Luker

Date: 12/20/2024

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 5

Description:

Boring 5 No landfill
material observed.

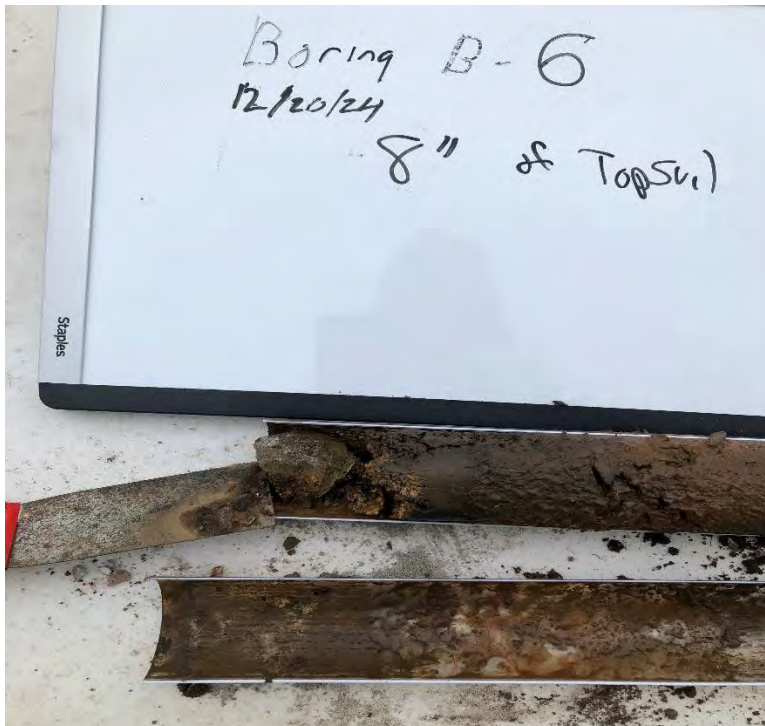
Location:

Trotting baseball Field
Field 2
Falmouth MA

Photograph taken by:

James Luker

Date: 12/20/2024



Photograph: 6

Description:

Boring B-6, piece of
glass in tip of sampler.

Location:

Trotting Baseball field
Field 1
Falmouth MA

Photograph taken by:

James Luker

Date: 12/20/2024

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 7

Description:

Boring 7, thin topsoil layer landfill debris at 5 inches.

Location:

Trotting Baseball Field
Between fields 1 and 2
Falmouth MA

Photograph taken by:

James Luker

Date: 12/20/2024



Photograph: 8

Description:

Boring 8 Advanced to 15 feet. Landfill material to 15 feet

Location:

Trotting baseball field
Between field 1 and 3
behind backstop/

Photograph taken by:

James Luker

Date: 12/20/2024

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 9

Description:
Boring B-9, landfill
material not observed.

Location:
Trotting Baseball Field
Field 1
Falmouth MA

Photograph taken by:
James Luker

Date: 12/20/2024



Photograph: 10

Description:
Boring B-10, landfill
material at 8 inches

Location:
Trotting Baseball Field
Field 1

Photograph taken by:
James Luker

Date: 12/20/2024

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 11

Description:

B-11 landfill material at
6 inches.

Location:

Trotting Baseball Field
Field 1
Falmouth, MA

Photograph taken by:

James Luker

Date: 12/20/2024



Photograph: 12

Description:

B-12 Landfill material at
7 inches

Location:

Trotting Baseball Field
Field 1
Falmouth, MA

Photograph taken by:

James Luker

Date: 12/20/2024

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 13

Description:

Boring 13, landfill
debris.

Location:

Trotting Baseball Field
Field 3
Falmouth, MA

Photograph taken by:

James Luker

Date: 12/20/2024



Photograph: 14

Description:

Boring B-14, minor
landfill debris

Location:

Trotting Baseball Field
Field 3
Falmouth, MA

Photograph taken by:

James Luker

Date: 12/20/2024

Soil Boring Log

Boring No.:	B_1
Sheet :	1 of 1

20-Dec-24	Logger:	Luker
20-Dec-24	Editor:	
	Weather:	partly cloudy 38 degrees

Project Name:	Trotting Field Park	Date Started:
Project Number:	3021964	Date Completed:
Project Location:	Falmouth, MA	

Date Started: 20-Dec-24
Date Completed: 20-Dec-24

Logger: Luker
 Editor: _____
 Weather: partly cloudy 38 degrees

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	topsoil samples collect by hand

Sampling Method:	Split spoon	
Sampling Interval:		
Water Level Start:		
Water Level Finish:		
Converted to Well:	☐ Yes	☒ No
Surface Elev:		
North Coor:		
East Coor:		



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Soil Boring Log

Boring No.:	<u>B_2</u>		
Sheet :	1	of	1

20-Dec-24	Logger:	Luker
20-Dec-24	Editor:	
	Weather:	partly cloudy 38 degrees

Project Number:	30251964

Date Completed: 20-Dec-24

Editor: _____

[illegible]

Driller Name: Maynor Mendoza

Drilling Fluid:	None

Sampling Interval: _____

Water Level Finish: _____

Surface Elev: _____

East Coor: _____



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Soil Boring Log

Boring No.:	B_3
Sheet :	1 of 1

Sheet : 1 of 1

Project Name:	Trotting Field Park

Project Number:	30251964

Project Location:	Falmouth, MA

Date Started: 20-Dec-24Date Completed: 20-Dec-24

Logger: Luker

Editor: _____

Weather: partly cloudy 38 degrees

[illegible]

Drilling Co.:	New England Geotechnical

Driller Name: Maynor Mendoza

Drilling Method: Geoprobe

Drilling Fluid:	None

Remarks:	topsoil samples collect by hand

Sampling Method: Split spoon

Sampling Interval: _____

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Surface Elev: _____

North Coor: _____

East Coor: _____



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built assets

Soil Boring Log

Boring No.:	B_4		
Sheet :	1	of	1

20-Dec-24	Logger:	Luker
20-Dec-24	Editor:	
	Weather:	partly cloudy 38 degrees

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Completed: 20-Dec-24

Editor: _____

Weather: <u>partly cloudy 38 degrees</u>

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	topsoil samples collect by hand

Sampling Interval: _____

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Surface Elev: _____

North Coor: _____

East Coor: _____



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Soil Boring Log

Boring No.:	B-5
Sheet :	1 of 1

20-Dec-24 Logger: Luker

Project Number:	30251964

Date Completed: 20-Dec-24

Editor: _____

Weather: partly cloudy 38 degrees

[illegible]

Driller Name: Maynor Mendoza

Drilling Fluid:	None

Sampling Interval: _____

Water Level Finish: _____

Surface Elev: _____

East Coor: _____



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Soil Boring Log

Boring No.:	B-6		
Sheet :	1	of	1

20-Dec-24	Logger:	Luker
20-Dec-24	Editor:	
	Weather:	partly cloudy 38 degrees

Project Name: Trotting Field Park

Project Number:	30251964

Project Location:	Falmouth, MA

Date Started: 20-Dec-24

Date Completed: 20-Dec-24

Logger: Luker

Editor: _____

Weather: partly cloudy 38 degrees

[illegible]

Drilling Co.:	New England Geotechnical

Driller Name:	Maynor Mendoza

Drilling Method:	Geoprobe

Drilling Fluid:	None

Remarks:	topsoil samples collect by hand

Sampling Method: Split spoon

Sampling Interval: _____

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes

Surface Elev: _____

North Coor: _____

East Coor: _____



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Soil Boring Log

Boring No.:	B-7		
Sheet :	1	of	1

20-Dec-24 Logger: Luker

Project Number:	30251964

Date Completed: 20-Dec-24

Editor: _____

Weather: partly cloudy 38 degrees

[illegible]

Driller Name: Maynor Mendoza

Drilling Fluid:	None

Sampling Interval: _____

Water Level Finish: _____

Surface Elev: _____

East Coor: _____

Soil Boring Log

Boring No.:	B-8
Sheet :	1 of 1

20-Dec-24	Logger:	Luker
20-Dec-24	Editor:	
	Weather:	partly cloudy 38 degrees

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started: 20-Dec-24
Date Completed: 20-Dec-24

Logger: Luker
 Editor: _____
 Weather: partly cloudy 38 degrees

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	topsoil samples collect by hand

Sampling Method: Split spoon

Sampling Interval: _____

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Surface Elev: _____

North Coor: _____

East Coor: _____



Design & Consultancy
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Soil Boring Log

Boring No.:	B-9		
Sheet :	1	of	1

20-Dec-24 Logger: Luker

Project Number:	30251964

Date Completed: 20-Dec-24

Editor: _____

Weather: partly cloudy 38 degrees

[illegible]

Driller Name: Maynor Mendoza

Drilling Fluid:	None

Sampling Interval: _____

Water Level Finish: _____

Surface Elev: _____

East Coor: _____



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Soil Boring Log	

Boring No.:	B-10		
Sheet :	1	of	1

20-Dec-24	Logger:	Luker
20-Dec-24	Editor:	
	Weather:	partly cloudy 38 degrees

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started:	20-Dec-24	Logger:	Luker
Date Completed:	20-Dec-24	Editor:	
		Weather:	partly cloudy 38 degrees

Logger:	Luker
Editor:	
Weather:	partly cloudy 38 degrees

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	topsoil samples collect by hand

Sampling Method:	Split spoon
Sampling Interval:	
Water Level Start:	
Water Level Finish:	
Converted to Well:	☐ Yes ☒ No
Surface Elev:	
North Coor:	
East Coor:	



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Soil Boring Log

Boring No.:	B-11		
Sheet :	1	of	1

Sheet : 1 of 1

Project Name:	Trotting Field Park
Project Number:	30251964
Project Location:	Falmouth, MA

Date Started: 20-Dec-24
Date Completed: 20-Dec-24

Logger: Luker
Editor: _____

Weather: partly cloudy 38 degrees

[illegible]



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Soil Boring Log	

Boring No.:	B-12
Sheet :	1 of 1

20-Dec-24	Logger:	Luker
20-Dec-24	Editor:	
	Weather:	partly cloudy 38 degrees

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started:	20-Dec-24	Logger:	Luker
Date Completed:	20-Dec-24	Editor:	
		Weather:	partly cloudy 38 degrees

Logger:	Luker
Editor:	
Weather:	partly cloudy 38 degrees

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	topsoil samples collect by hand

Sampling Method:	Split spoon
Sampling Interval:	
Water Level Start:	
Water Level Finish:	
Converted to Well:	☐ Yes ☒ No
Surface Elev:	
North Coor:	
East Coor:	



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Soil Boring Log	

Boring No.:	B-13
Sheet :	1 of 1

20-Dec-24	Logger:	Luker
20-Dec-24	Editor:	
	Weather:	partly cloudy 38 degrees

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started:	20-Dec-24	Logger:	Luker
Date Completed:	20-Dec-24	Editor:	
		Weather:	partly cloudy 38 degrees

Logger:	Luker
Editor:	
Weather:	partly cloudy 38 degrees

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	topsoil samples collect by hand

Sampling Method:	Split spoon	
Sampling Interval:		
Water Level Start:		
Water Level Finish:		
Converted to Well:	☐ Yes	☒ No
Surface Elev:		
North Coor:		
East Coor:		



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built assets

Soil Boring Log	

Boring No.:	B-14
Sheet :	1 of 1

20-Dec-24	Logger:	Luker
20-Dec-24	Editor:	
	Weather:	partly cloudy 38 degrees

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started:	20-Dec-24	Logger:	Luker
Date Completed:	20-Dec-24	Editor:	
		Weather:	partly cloudy 38 degrees

Logger:	Luker
Editor:	
Weather:	partly cloudy 38 degrees

[illegible]

Drilling Co.:	New England Geotechnical	Sampling Method:	Split spoon
Driller Name:	Maynor Mendoza	Sampling Interval:	
Drilling Method:	Geoprobe	Water Level Start:	
Drilling Fluid:	None	Water Level Finish:	
Remarks:	topsoil samples collect by hand	Converted to Well:	☐ Yes ☒ No
		Surface Elev:	
		North Coor:	
		East Coor:	

Sampling Method:	Split spoon	
Sampling Interval:		
Water Level Start:		
Water Level Finish:		
Converted to Well:	☐ Yes	☒ No
Surface Elev:		
North Coor:		
East Coor:		

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 1

Description:
B-15, No landfill
material observed.

Location:
Trotting baseball field
batting cages.
Falmouth MA

Photograph taken by:
Elisabeth Arnold

Date: 3/11/2025



Photograph: 2

Description:
B-16, No landfill
material observed.

Location:
Trotting baseball field
batting cages.
Falmouth MA

Photograph taken by:
Elisabeth Arnold

Date: 3/11/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 3

Description:
B-17, No landfill material observed.

Location:
Trotting baseball field
batting cages.
Falmouth MA

Photograph taken by:
Elisabeth Arnold

Date: 3/11/2025



Photograph: 4

Description:
B-18, landfill debris at 2 ft.

Location:
Trotting baseball field
parking lot near
concession stand,
behind field 1.
Falmouth MA

Photograph taken by:
Elisabeth Arnold

Date: 3/11/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 5

Description:

B-19, 25 feet. Minimal glass top 5 feet. Landfill 10-24 feet.

Location:

Trotting baseball Field
1.
Falmouth MA

Photograph taken by:

Elisabeth Arnold

Date: 3/11/2025



Photograph: 6

Description:

B-20, Minimal glass top 3.5 feet. Landfill 3.5-17 feet.

Location:

Trotting Baseball field 2
Falmouth MA

Photograph taken by:

Elisabeth Arnold

Date: 3/11/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 7

Description:

B-21, minimal landfill debris at 4ft

Location:

Trotting Baseball Field
Between fields 1 and 3
Falmouth MA

Photograph taken by:

Elisabeth Arnold

Date: 3/11/2025



Photograph: 8

Description:

B-22, landfill debris 4.5-5 feet.

Location:

Trotting baseball field 3.
Falmouth MA

Photograph taken by:

Elisabeth Arnold

Date: 3/11/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 9

Description:
B-23, No landfill
material observed.

Location:
Trotting Baseball Field
2
Falmouth MA

Photograph taken by:
Elisabeth Arnold

Date: 3/11/2025



Photograph: 10

Description:
B-24, soil with wood at
3-4.8 feet. No other
potential landfill
material observed.

Location:
Trotting baseball field
lower parking area
behind field 2.
Falmouth MA

Photograph taken by:
Elisabeth Arnold

Date: 3/11/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 11

Description:

B-25, some landfill material 3.5-5 feet.

Location:

Trotting Baseball Field
parking lot behind field
2.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/11/2025



Photograph: 12

Description:

B-26, landfill material at
2 and 3.5 feet.

Location:

Trotting Baseball Field
parking lot behind field
2.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/11/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 13

Description:

MW-1, No landfill
material observed.
Depth 33.5 feet

Location:

Trotting Baseball Field
batting cages
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/11/2025



Photograph: 14

Description:

MW-1, No landfill
material observed.
Depth 33.5 feet

Location:

Trotting Baseball Field
batting cages
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/11/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 15

Description:

MW-2, some landfill material observed 5.5-6 feet. Depth 17 feet

Location:

Trotting Baseball Field
between road and field
1.
Falmouth, MA

Photograph taken by:
Elisabeth Arnold

Date: 3/12/2025



Photograph: 16

Description:

MW-2, some landfill material observed 5.5-6 feet. Depth 17 feet

Location:

Trotting Baseball Field
between road and field
1.
Falmouth, MA

Photograph taken by:
Elisabeth Arnold

Date: 3/12/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 17

Description:

MW-2, some landfill material observed 5.5-6 feet. Depth 17 feet

Location:

Trotting Baseball Field
between road and field
1.
Falmouth, MA

Photograph taken by:
Elisabeth Arnold

Date: 3/12/2025



Photograph: 18

Description:

MW-3, No landfill material observed.
Depth 16 feet.

Location:

Trotting Baseball Field
between outfield Field 3
and road.
Falmouth, MA

Photograph taken by:
Elisabeth Arnold

Date: 3/12/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 19

Description:
MW-3, No landfill material observed.
Depth 16 feet.

Location:
Trotting Baseball Field
between outfield Field 3
and road.
Falmouth, MA

Photograph taken by:
Elisabeth Arnold

Date: 3/12/2025



Photograph: 20

Description:
MW-3, No landfill material observed.
Depth 16 feet.

Location:
Trotting Baseball Field
between outfield Field 3
and road.
Falmouth, MA

Photograph taken by:
Elisabeth Arnold

Date: 3/12/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 21

Description:
MW-4, No landfill
material observed.
Depth 16.5 feet.

Location:
Trotting Baseball Field
3 outfield.
Falmouth, MA

Photograph taken by:
Elisabeth Arnold

Date: 3/12/2025



Photograph: 22

Description:
MW-4, No landfill
material observed.
Depth 16.5 feet.

Location:
Trotting Baseball Field
3 outfield.
Falmouth, MA

Photograph taken by:
Elisabeth Arnold

Date: 3/12/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 23

Description:

MW-4, No landfill material observed.
Depth 16.5 feet.

Location:

Trotting Baseball Field
3 outfield.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/12/2025



Photograph: 24

Description:

MW-5, landfill material
6.5-11.5 feet. Total
depth 17 feet.

Location:

Trotting Baseball Field
behind field 2.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/12/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 25

Description:

MW-5, landfill material
6.5-11.5 feet. Total
depth 17 feet.

Location:

Trotting Baseball Field
behind field 2.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/12/2025



Photograph: 26

Description:

MW-5, landfill material
6.5-11.5 feet. Total
depth 17 feet.

Location:

Trotting Baseball Field
behind field 2.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/12/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 27

Description:

MW-6, minimal glass top 5 feet. Landfill material observed 5-7 feet. Total depth 30 feet.

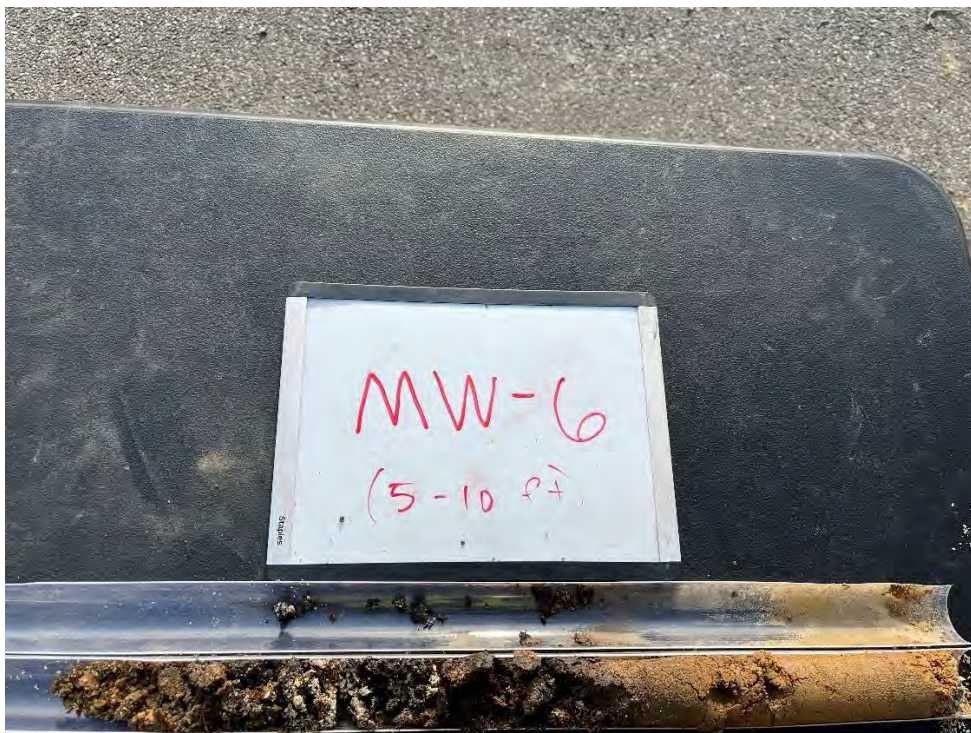
Location:

Trotting Baseball Fields parking lot.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/12/2025



Photograph: 28

Description:

MW-6, minimal glass top 5 feet. Landfill material observed 5-7 feet. Total depth 30 feet.

Location:

Trotting Baseball Fields parking lot.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/12/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 29

Description:

MW-6, minimal glass top 5 feet. Landfill material observed 5-7 feet. Total depth 30 feet.

Location:

Trotting Baseball Fields parking lot.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/12/2025



Photograph: 30

Description:

MW-6, minimal glass top 5 feet. Landfill material observed 5-7 feet. Total depth 30 feet.

Location:

Trotting Baseball Fields parking lot.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/12/2025

PHOTOGRAPH LOG

Town of Falmouth
Trotting Field Park
Falmouth MA



Photograph: 31

Description:

MW-6, minimal glass top 5 feet. Landfill material observed 5-7 feet. Total depth 30 feet.

Location:

Trotting Baseball Fields parking lot.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/12/2025



Photograph: 32

Description:

MW-6, minimal glass top 5 feet. Landfill material observed 5-7 feet. Total depth 30 feet.

Location:

Trotting Baseball Fields parking lot.
Falmouth, MA

Photograph taken by:

Elisabeth Arnold

Date: 3/12/2025



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Soil Boring Log	

Boring No.:	B-15		
Sheet :	1	of	1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor: _____
	Weather: 50s, Sunny

Project Location:	Falmouth, MA

Weather: 50s, Sunny

[illegible]



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Soil Boring Log	

Boring No.:	B-16		
Sheet :	1	of	1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor: _____
	Weather: 50s, Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started:
Date Completed:

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Samples taken at 0-1ft and 0-3 ft

Sampling Method:	Split spoon	
Sampling Interval:		
Water Level Start:		
Water Level Finish:		
Converted to Well:	☐ Yes	☒ No

Surface Elev:	
North Coor:	
East Coor:	



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Soil Boring Log	

Boring No.:	B-17		
Sheet :	1	of	1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor: _____
	Weather: 50s, sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started:
Date Completed:

Weather: 50s, sunny

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Samples taken at 0-1 ft and 0-3 ft

Sampling Method: Split spoon

Sampling Interval: _____

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Surface Elev: _____

North Coor: _____

East Coord: _____



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Soil Boring Log

Boring No.: _____ B-18	
Sheet : 1	of 1

Sheet : 1 of 1

Project Name:	Trotting Field Park

Date Started: 11-Mar-25

Logger: Elisabeth Arnold

Project Number: 30251964

Date Completed: 11-Mar-25

Editor: _____

Project Location: Falmouth, MA

Weather: 50s, Sunny

[illegible]

Drilling Co.: New England Geotechnical

Sampling Method: Split spoon

Driller Name: Maynor Mendoza

Sampling Interval: _____

Drilling Method: Geoprobe

Water Level Start: _____

Drilling Fluid:	None

Water Level Finish: _____

Remarks:	Sample taken at 0-3 ft

☐ Yes☒ No

Surface Elev: _____

North Coord: _____

East Coor: _____



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Soil Boring Log

Boring No.:	B-19
Sheet :	1 of 1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor:
	Weather: 50s, Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Completed: 11-Mar-25

Editor: _____

Weather: 50s, Sunny

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Samples taken at 0-1ft and 22-25

Sampling Method: Split spoon

Sampling Interval: _____

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Surface Elev: _____

North Coop: _____

East Coord: _____



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Soil Boring Log

Boring No.: _____ B-20	
Sheet : 1	of 1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor:
	Weather: 50s, Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Completed: 11-Mar-25

Editor: _____

Weather: 50s, Sunny

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Samples taken at 0-1 ft and 22-2

Sampling Interval: _____

Water Level Finish:

Surface Elev:

North Coor:

East Coor:



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Soil Boring Log	

Boring No.:	B-21		
Sheet :	1	of	1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor: _____
	Weather: 50s, Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started:
Date Completed:

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Samples taken at 0-1 ft and 0-3 ft

Sampling Method:	Split spoon	
Sampling Interval:		
Water Level Start:		
Water Level Finish:		
Converted to Well:	☐ Yes	☒ No
Surface Elev:		
North Coor:		
East Coor:		



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Soil Boring Log	

Boring No.:	B-22		
Sheet :	1	of	1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor: _____
	Weather: 50s, Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Editor:	
Weather:	50s, Sunny

Weather: 50s, Sunny

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Samples taken at 0-1 ft and 0-3 f

Sampling Interval:	
Water Level Start:	
Water Level Finish:	
Converted to Well:	☐ Yes ☒ No

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Surface Elev: _____

North Coor: _____

East Coor: _____



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Soil Boring Log	

Boring No.:	B-23		
Sheet :	1	of	1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor: _____
	Weather: 50s, Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started:
Date Completed:

Logger:	Elisabeth Arnold
Editor:	
Weather:	50s, Sunny

Weather: 50s, Sunny

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Samples taken at 0-1 ft and 0-3 f

Sampling Method:	Split spoon	
Sampling Interval:		
Water Level Start:		
Water Level Finish:		
Converted to Well:	☐ Yes	☒ No
Surface Elev:		
North Coor:		
East Coor:		

Sampling Interval: _____

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Surface Elev: _____

North Coor: _____

East Coor: _____



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Soil Boring Log

Boring No.: _____ B-24	
Sheet : 1	of 1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor:
	Weather: 50s, Sunny

Project Name:	Trotting Field Park
Project Number:	30251964
Project Location:	Falmouth, MA

Date Started: 11-Mar-25
Date Completed: 11-Mar-25

Editor:	
Weather:	50s, Sunny

Description

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Samples taken at 0-1 and 0-3 feet

Sampling Method:	Split spoon	
Sampling Interval:		
Water Level Start:		
Water Level Finish:		
pt. Converted to Well:	☐ Yes	☒ No
Surface Elev:		
North Coord:		

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Converted to Well: ☐ Yes ☒ No

Surface Elev: _____
North Coord: _____

North Coor: _____

East Coor: _____



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Soil Boring Log	

Boring No.:	B-25		
Sheet :	1	of	1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor: _____
	Weather: 50s, Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started:
Date Completed:

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Sample taken at 0-3 feet

Sampling Method:	Split spoon	
Sampling Interval:		
Water Level Start:		
Water Level Finish:		
Converted to Well:	☐ Yes	☒ No

Surface Elev:	
North Coor:	
East Coor:	



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built assets

Soil Boring Log	

Boring No.:	B-26		
Sheet :	1	of	1

11-Mar-25	Logger: Elisabeth Arnold
11-Mar-25	Editor: _____
	Weather: 50s, Sunny

Project Name:	<u>Trotting Field Park</u>	Date Started:
Project Number:	<u>30251964</u>	Date Completed:
Project Location:	<u>Falmouth, MA</u>	

Date Started: 11-Mar-25	Logger: Elisabeth Arnold
Date Completed: 11-Mar-25	Editor:
	Weather: 50s, Sunny

Logger:	Elisabeth Arnold
Editor:	
Weather:	50s, Sunny

Editor:	
Weather:	50s, Sunny

[illegible]

Drilling Co.:	New England Geotechnical	Sampling Method:	Split spoon
Driller Name:	Maynor Mendoza	Sampling Interval:	
Drilling Method:	Geoprobe	Water Level Start:	
Drilling Fluid:	None	Water Level Finish:	
Remarks:	Samples taken at 0-1 ft and 0-3 feet	Converted to Well:	☐ Yes ☒ No
		Surface Elev:	
		North Coor:	
		East Coor:	

Sampling Method:	Split spoon	
Sampling Interval:		
Water Level Start:		
Water Level Finish:		
Converted to Well:	☐ Yes	☒ No

Sampling Interval: _____

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Water Level Start: _____

Water Level Finish: _____

Converted to Well: ☐ Yes ☒ No

Surface Elev: _____
 North Coor: _____
 East Coor: _____

Surface Elev: _____
North Coor: _____
East Coor: _____

North Coor: _____
East Coor: _____

East Coor: _____



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Soil Boring Log

Boring No.:	MW-1		
Sheet :	1	of	1

11-Mar-25	Logger: Elisabeth Arnold
12-Mar-25	Editor: _____
	Weather: 50s, Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Completed: 12-Mar-25

Editor: _____

Weather: 50s, Sunny

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Sample taken at 0-3 ft. Too deep to recover sleeves after 25ft. Total depth of well 33.5 ft. Screen 23.5-33.5ft. 3ft standpipe. Developed with bailer.

Sampling Interval: _____

Water Level Finish: _____

Surface Elev: _____

North Coor:

East Coor:



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Soil Boring Log					

Boring No.:	MW-2		
Sheet :	1	of	1

Sheet : 1 of 1

Project Name:	Trotting Field Park

Date Started: 12-Mar-25

Logger: Elisabeth Arnold

Project Number:	30251964

Date Completed: 12-Mar-25

Editor: _____

Project Location:	Falmouth, MA

Weather: 40s, Partly Sunny

[illegible]

Drilling Co.:	New England Geotechnical

Sampling Method: Split spoon

Driller Name: Maynor Mendoza

Sampling Interval: _____

Drilling Method: Geoprobe

Water Level Start: 11 ft bgs

Drilling Fluid:	None

Water Level Finish: _____

Remarks:	Sample taken at 0-3 ft. Total depth

Converted to Well: ☒ Yes ☐ No

of well 17ft. Screen 7-17ft. 3ft standpipe. Developed with
whale pump.

Surface Elev: _____

North Coor: _____

East Coord: _____



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Soil Boring Log

Boring No.:	MW-3
Sheet :	1 of 1

12-Mar-25	Logger: Elisabeth Arnold
12-Mar-25	Editor: _____
	Weather: 40s, Partly Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Completed: 12-Mar-25

Editor: _____

Weather: 40s, Partly Sunny[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Sample taken at 0-1ft. Total depth of well 16.5 ft. Screen 6.5-16.5 ft. 3 ft standpipe.
Developed with whale pump.	

Sampling Method: Split spoon

Sampling Interval:

Water Level Start: 10.5 ft bgs

Water Level Finish:

Converted to Well: ☒ Yes ☐ No

Surface Elev:

North Coor:

East Coor:



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Soil Boring Log

Boring No.:	MW-4
Sheet :	1 of 1

12-Mar-25	Logger: Elisabeth Arnold
12-Mar-25	Editor:
	Weather: 40s, Partly sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Completed: 12-Mar-25

Editor: _____

Weather: 40s, Partly sunny

Depth (feet)			Blow Counts	Recovery (ft.)	PID (ppmv)	Description
0		0.5		4		TOP SOIL
0.5		4.5				dark brown fine SOIL, dense
4.5		5				dark brown coarse SAND
						No elevated PID
5		6		2.5		dark brown coarse SAND
6		10				tan coarse SAND to grey fine SAND
						No elevated PID
10		11.0		3		grey fine SAND
11		15				Coarse GRAVEL, saturated
						water at ~10.5 ft
						No elevated PID
15		17		X		No sleeve recovered



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Soil Boring Log

Boring No.:		MW-5	
Sheet :	1	of	1

12-Mar-25	Logger: Elisabeth Arnold
12-Mar-25	Editor: _____
	Weather: 40s, Partly Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Completed: 12-Mar-25

Editor: _____

Weather: 40s, Partly Sunny

[illegible]

Drilling Co.:	New England Geotechnical
Driller Name:	Maynor Mendoza
Drilling Method:	Geoprobe
Drilling Fluid:	None
Remarks:	Samples taken at 0-3ft and 10-11ft
Total depth of well 17ft. Screen 3-17ft. 3ft Standpipe	
Developed with whale pump	

Sampling Interval: _____

Water Level Finish: _____

Converted to Well: ☒ Yes ☐ No

North Coor:

East Coor:



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Soil Boring Log	

Boring No.:	MW-6
Sheet : 1 of 1	

12-Mar-25	Logger: Elisabeth Arnold
12-Mar-25	Editor: _____
	Weather: 40s, Partly Sunny

Project Name:	Trotting Field Park	Date Started:
Project Number:	30251964	Date Completed:
Project Location:	Falmouth, MA	

Date Started:
Date Completed:

Editor:	
Weather:	40s, Partly Sunny

Weather: 40s, Partly Sunny

[illegible]

Drilling Co.:	New England Geotechnical	Sampling Method:
Driller Name:	Maynor Mendoza	Sampling Interval:
Drilling Method:	Geoprobe	Water Level Start:
Drilling Fluid:	None	Water Level Finish:
Remarks:	Samples taken at 0-1 ft and 0-4 ft.	Converted to Well:
Total depth of well 30ft. Screen 20-30ft. 3 ft standpipe.		Surface Elev:
Developed with bailer.		North Coor:
		East Coor:

Sampling Interval: _____
Water Level Start: 24.2 ft bgs

Water Level Start:	24.2 ft bgs
Water Level Finish:	

Water Level Finish: _____

Converted to Well: ☒ Yes ☐ No

Converted to Well: ☒ Yes ☐ No
Surface Elev: _____

Surface Elev: _____
North Coor: _____

North Coor: _____
East Coor: _____

Appendix F

Preliminary Risk Screening

Peter McConarty
Director, Department of Public Works
Town of Falmouth
416 Gifford Street
Falmouth, MA 02540

Arcadis U.S., Inc.
101 Federal Street
Suite 1900
Boston
Massachusetts 02110
Phone: 617 849 9400
Fax: 617 342 7080
www.arcadis.com

Date: February 18, 2025

Our Ref: 30251964

Subject: Risk Assessment and Status Report for Trotting Park Baseball Fields

Dear Peter McConarty,

This letter summarizes the results of a risk assessment conducted to evaluate the detection of metals and other constituents in soil samples collected from the Trotting Park Baseball Fields. The purpose of the risk assessment is to provide information that would support the Town of Falmouth's decisions regarding continued use of the ballfields in the near term (2025). Work was done in accordance with the Massachusetts Contingency Plan (MCP), a state regulation at 310 Code of Massachusetts Regulations (CMR) 40.0000.

Soil Sample Results

Soil samples were collected from two depth intervals (0 to 0.5 feet and 0.5 to 5 feet) below turf from Fields 1, 2 and 3. Samples were submitted to PACE, a licensed testing laboratory, for analysis of heavy metals, volatile organic compounds, petroleum hydrocarbon fractions, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs). Many of the analytes were either not detected, detected at concentrations less than natural background concentrations for metals, or less than soil standards established by the Massachusetts Department of Environmental Protection (MassDEP). Other constituents were detected at concentrations greater than natural background concentrations for metals and PAHs¹ including antimony, arsenic, barium, cadmium, chromium, lead, mercury, nickel, silver, zinc, benzo(b)fluoranthene, and benzo(g,h,i)perylene.

Of the detected constituents, lead is associated with the greatest potential risk to health due to the detected concentrations in surface soil samples collected from Field 1. The distribution of lead measured in soil samples collected from the three fields varied. Table 1 presents the lead concentrations measured in soil samples collected from below the turf and up to six inches in depth. Table 2 presents the lead concentrations from soil samples composited over a depth of six inches to five feet below the turf. Discrete samples were also collected at depth on Field 3.

¹ MassDEP. 2002. Background Concentrations Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil. Technical Update. May.

Table 1. Distribution of lead in soil samples collected from 0-0.5 feet below turf on Trotting Park Baseball Fields

Field #	Date Developed	Boring ID's	Lead Concentration Range (mg/kg)	Natural Background Concentration (mg/kg)
Field 1	1977/1978	B-6, -9, -10, -11, -12	41.8 – 601	100
Field 2	1985-1991	B-1, -2, -3, -4	7.53 – 190	100
Field 3	2010-2014	B-7, -8, -13, -14	12.3 – 45.2	100

The concentrations of lead in soil samples collected from Field 1 were higher than concentrations on Fields 2 and 3. The maximum detected concentration of lead in 0 to 0.5 feet samples collected on Field 1 was 601 milligrams per kilogram (mg/kg) as compared to 190 mg/kg on Field 2 and 45.2 mg/kg on Field 3. The MassDEP-identified background concentration of lead is 100 mg/kg in natural soil and 600 mg/kg in anthropogenic soils. At the fields, lead concentrations in soil samples collected from 0 to 0.5 feet can be compared to 100 mg/kg and lead concentrations in soil samples collected from deeper samples can be compared to 600 mg/kg if landfill materials were observed in the samples. Based on field observations, sample B-5 collected on Field 2 did not include landfill materials and is not included in the statistics shown in Tables 1 and 2. The maximum lead concentration in soil samples collected from 0 to 0.5 feet on Fields 1 and 2 is greater than the MassDEP natural background concentration. The maximum lead concentration in soil samples collected from 0.5 to 5 feet on Fields 1, 2, and 3 is greater than the MassDEP anthropogenic background concentration.

Table 2. Distribution of lead in soil samples collected from 0.5-5 feet below turf on Trotting Park Baseball Fields

Field #	Date Developed	Boring ID's	Lead Concentration Range (mg/kg)	Anthropogenic Background Concentration (mg/kg)
Field 1	1977/1978	B-6, -9, -10, -11, -12	4.59 – 1,610	600
Field 2	1985-1991	B-1, -2, -3, -4	225 – 1,710	600
Field 3	2010-2014	B-7, -8, -13, -14	31.1 – 755	600

MassDEP Soil Standards

The MassDEP has promulgated soil standards for the constituents detected in soil samples. The MassDEP soil standard for lead in soil is 200 mg/kg for unrestricted land uses including residential land uses (S-1 Soil Standard). The MassDEP soil standard for non-residential land uses where people can contact soil (for example, construction workers) is 600 mg/kg (S-2 and S-3 Soil Standard). There is not a promulgated standard specific to recreational use of the ballfields. The maximum lead concentration in surface soil (0 to 0.5 feet) on Field 2 and 3 is less than 200 mg/kg. The maximum lead concentration in surface soil on Field 1 and subsurface soil (0.5 to 5 feet) on all three fields is greater than 200 mg/kg and 600 mg/kg.

Table 3. Comparison of maximum detected concentrations of lead in soil samples to MCP soil standards

	Maximum Lead Concentration (0-0.5 feet) (mg/kg)	Boring ID of Maximum Lead Concentration (0-0.5 feet)	Maximum Lead Concentration (0.5-5 feet) (mg/kg)	Boring ID of Maximum Lead Concentration (0.5-5 feet)
MCP S-1 Soil Standard (mg/kg) – Unrestricted land uses including residential	200		200	
MCP S-2/S-3 Soil Standard (mg/kg) – Non-residential land uses (e.g., workers)	600		600	
Field #				
Field 1	601	B-11	1,610	B-12
Field 2	190	B-1	1,710	B-3
Field 3	45.2	B-8	755	B-13

Maximum concentrations of other metals detected in surface soil on Field 1 (antimony, arsenic, barium, cadmium, chromium, mercury, nickel, vanadium, and zinc) were less than the MassDEP S-1 soil standards. Maximum concentrations of most metals detected in subsurface soil on Field 1 (barium, cadmium, chromium, mercury, nickel, silver, and vanadium) were less than the MassDEP S-1 soil standards; however, concentrations of antimony, arsenic, lead, and zinc detected in subsurface soil on Field 1 were greater than the MassDEP S-1 soil standards. The maximum concentrations of metals detected in surface soil on Fields 2 and 3 (arsenic, barium, chromium, lead, mercury, nickel, vanadium, and zinc) were less than the MassDEP S-1 soil standards. Maximum concentrations of most metals detected in subsurface soil on Fields 2 and 3 (antimony, barium, cadmium, chromium, mercury, nickel, silver, and vanadium) were less than the MassDEP S-1 soil standards; however, concentrations of arsenic, lead, and zinc detected in subsurface soil on Fields 2 and 3 were greater than the MassDEP S-1 soil standards. Additionally, the maximum concentration of total PCBs detected in subsurface soil on Field 2 was greater than the MassDEP S-1 soil standard.

Maximum concentrations do not have to be used to compare to soil standards to evaluate potential risks to health. An average concentration among multiple samples can be used when the MCP performance standard for averaging has been met. Specifically, average concentrations can be used as exposure point concentrations (EPCs) when 75% of samples are not greater than the applicable standard or risk-based concentration limit and no individual result is ten times greater than the applicable standard or risk-based concentration limit.

In the available surface soil data set, less than 75 percent of the samples on Field 1 have lead concentrations that are less than the S-1 soil standard. Therefore, the EPC for lead in soil on Field 1 defaults to the maximum detected concentration. Other constituents were detected in surface soil on Field 1 at concentrations less than their respective S-1 soil standard and thus an average concentration is used as the EPC for these constituents to evaluate risk. Constituents were detected in surface soil samples collected on Fields 2 and 3 at concentrations

less than their respective S-1 soil standard and thus an average concentration is used as the EPC for these constituents to evaluate risk on these fields.

In the available subsurface data set, less than 75 percent of the samples collected on Fields 1, 2, and 3 have arsenic, lead, and zinc concentrations that are less than the S-1 soil standard. Additionally, one sample on Field 1 had a concentration of antimony greater than ten times the S-1 standard. Therefore, the EPCs for antimony (Field 1 only), arsenic, lead, and zinc in soil on Fields 1, 2, and 3 default to the maximum detected concentrations for the purposes of risk assessment.

Risk Assessment Tasks Identified in Approved Scope of Work

In accordance with the Scope of Work for Risk Assessment submitted to the Town January 13, 2025 for Task 7, Arcadis has conducted an Imminent Hazard Evaluation (IHE) for the Site to evaluate if site conditions pose an Imminent Hazard to safety, health, or the environment based upon the criteria established in 310 CMR 40.0955(1) through (3). Task 8 is a MCP Risk Characterization of long-term potential risks to health based on the data collected to date.

Task 7.1 Imminent Hazard Evaluation for Safety

Arcadis evaluated if release-related conditions at the Site pose a threat of physical harm or bodily injury or present dangerous or nuisance conditions in accordance with 310 CMR 40.0960. Exposed landfill waste material along the walking paths leading to the fields could pose a safety risk under current conditions. This conclusion is based on the visual observations of conditions along the walking path between fields.

As described in 310 CMR 40.0955(1), conditions at a disposal site pose an Imminent Hazard based on safety concerns if a condition of no significant risk to safety has not been achieved at the disposal site under conditions which exist or are about to occur. Therefore, there is an Imminent Hazard based on safety concerns along the walking paths that should be addressed to mitigate risks from physical hazards.

Task 7.2 Imminent Hazard Evaluation for Human Health

As described in 310 CMR 40.0955(2), Arcadis prepared a Method 3 Risk Characterization in accordance with the requirements of 310 CMR 40.0993 to evaluate whether site conditions pose an Imminent Hazard to human health. Components of the IHE for human health as applied to the subject site are summarized in Table 4 below.

Table 4. Components of IHE to Human Health, according to the MCP

Component	Site-Specific Evaluation
Identification of Applicable Soil Categories	Consistent with categories defined in the MCP (Table 40.0933[9]), soil on the property is currently categorized as Category S-1 and S-2 because impacted soil is not more than 3 feet below ground surface and the surface is unpaved.
Exposure Points	Exposure points are areas where contact with soil could occur. For the IHE, the potential for exposure to constituents in surface soils from 0 to 12 inches below grade was evaluated.
Exposure Point Concentrations	Consistent with the requirements in 310 CMR 40.0953 for the evaluation of soil-related exposures, the concentrations of constituents detected in soil samples collected in December

2024 at the ground surface was considered in the development of soil EPCs for the IHE. Data are available for topsoil collected from 0 to 0.5 feet.

Receptors Evaluated	The IHE evaluated potential risks to recreators, including children, assumed to have contact with constituents detected in surface soil. Young children aged 1 to 2 years and 1 to 6 years were assumed to contact soil, consistent with MassDEP policy to evaluate sensitive receptors.
Risk Characterization Method	The MassDEP Park Visitor - Soil Imminent Hazard Evaluation Shortform (2024) is a Microsoft® Excel™ spreadsheet used by risk assessors to provide numerical estimates of potential risk to health based on standardized exposure assumptions and toxicity information. Arcadis used the Shortform for Imminent Hazards to provide numerical estimates of potential risk associated with recreators' presumed contact with the constituents detected in surface soil samples collected from the ballfields. Two measures of potential risk were estimated: (1) excess lifetime cancer risk (ELCR); and (2) non-cancer hazard index (HI). The numerical estimates were compared to MCP regulatory limits for evaluating Imminent Hazards to health.
Results	The ELCR estimate for Park Visitors contacting surface soil from 0 to 0.5 feet below the surface on Field 1 (4.6 E-08) is less than 1E-05 which is the MCP risk limit². The total HI estimate for this scenario (2.20) is greater than the MCP risk limit of 1. Lead contributed 86 percent to the total HI estimate with an individual chemical Hazard Quotient of 1.9. This result assumes contact with lead at a concentration of 601 mg/kg measured in sample B-11 on Field 1 and could pose an Imminent Hazard to Health if access to this location is not restricted. The concentrations of lead and other constituents in soil from 0 to 0.5 feet on Fields 2 and 3 do not pose an Imminent Hazard to health. The MassDEP Shortform for Park Visitor – Imminent Hazard Evaluation spreadsheets are provided as Attachment 1 to this letter.

Task 7.3 IHE for the Environment

As described in 310 CMR 40.0955(3), the following conditions shall constitute an Imminent Hazard to the environment: (a) evidence of stressed biota attributable to the release at the disposal site, including, without limitation, fish kills or abiotic conditions; or (b) a release to the environment of oil or hazardous material which produces immediate or acute adverse impacts to freshwater or saltwater fish populations. These conditions are not present at Trotting Park Baseball Fields.

Task 8 – MCP Risk Characterization

Arcadis conducted a MCP Method 3 Risk Characterization to evaluate if site conditions pose a Significant Risk to health based upon the definitions and methods established in 310 CMR 40.0990. Method 3 is an accepted risk assessment approach as an alternative to comparing to MCP Method 1 Standards. As described in the MCP, Method 3 relies upon detailed information about the site, the constituents detected, and potential exposures to human and environmental receptors under current and reasonably

² 4.6E-08 is scientific notation and can also be written as 4.6 x 10⁻⁸. The MCP ELCR limit is 1E-05, or 1x10⁻⁵, or 1 in 100,000 excess lifetime cancer risk.

foreseeable site activities and uses to characterize the risk of harm. The primary differences between the IHE and the Method 3 Risk Characterization is the magnitude of exposure assumed to occur under current land uses. The IHE focused on short-term exposures to higher concentrations of constituents and to any hot spots of contamination, if present, whereas the evaluation of Significant Risk considered long-term contact with constituent concentrations in soil throughout the exposure point, relying on average concentrations where allowed by regulation.

Table 5. Components of Significant Risk Evaluation to Human Health, according to the MCP

Component	Site-Specific Evaluation
Identification of Applicable Soil Categories	Consistent with categories defined in the MCP (Table 40.0933[9]), soil on the property is currently categorized as Category S-1 and S-2 because impacted soil is not more than 3 feet below ground surface and the surface is unpaved. Soil deeper than 3 feet bgs may also be impacted and could be categorized as S-1, S-2, or S-3 depending on future land uses.
Exposure Points	Exposure points are areas where contact with soil could occur. For the Significant Risk Evaluation, the potential for exposure to constituents in soils from 0 to 0.5 and 0.5 to 5 feet below the turf was evaluated.
Exposure Point Concentrations	The concentrations of constituents detected in soil samples collected in December 2024 at sampled depths of 0 to 0.5 and 0.5 to 5 feet below turf were considered in the development of soil EPCs for this evaluation. The MCP defines surface soil as soil from 0 to 3 feet below ground surface. The available data sets are 0 to 0.5 feet and 0.5 to 5 feet below ground surface.
Receptors Evaluated	Recreators, including children and adults, were assumed to have contact with constituents detected in soil. Young children aged 1 to 2 years and 1 to 6 years were assumed to contact soil, consistent with MassDEP policy to evaluate sensitive receptors. For the purposes of estimating future hypothetical cancer risk, a 30-year exposure period was assumed for people from age 1 to 31.
Risk Characterization Method	To estimate cumulative risk, Arcadis used the MassDEP 2024 Shortforms for Method 3 Risk Assessment for Park Visitor Exposed to Chemicals in Soil. The MassDEP standard exposure assumptions for this Shortform differ from the Imminent Hazard Shortform. Arcadis used the Shortform to provide numerical estimates of potential risk associated with recreators' presumed contact with the constituents detected in soil samples collected from the ballfields. Two measures of potential risk were estimated: (1) excess lifetime cancer risk; and (2) non-cancer hazard index. The numerical estimates were compared to MCP regulatory limits for evaluating Significant Risks to health.
Results	The ELCR estimate for Park Visitors contacting soil from 0 to 0.5 feet below the turf on Field 1 (6.6 E-08) does not exceed the MCP risk limit ³ of 1E-05. The chronic HI estimate for this scenario (0.63) based on a young child aged 1 to 8 years does not exceed the MCP HI limit of 1. The subchronic HI estimate for this scenario (2.1) based on a young child aged 1 to 2 years is greater than the MCP HI limit of 1. Lead contributed 90 percent to the total HI estimate with

³ 6.6E-08 is scientific notation and can also be written as 6.6 x 10⁻⁸. The MCP ELCR limit is 1E-05, or 1x10⁻⁵, or 1 in 100,000 excess lifetime cancer risk.

an individual chemical Hazard Quotient of 1.9. This result assumes contact with lead at a concentration of 601 mg/kg measured in sample B-11 on Field 1. The concentrations of lead and other constituents in soil from 0 to 0.5 feet on Field 2 and 3 do not pose a Significant Risk to health.

The ELCR estimate for Park Visitors contacting soil from 0.5 to 5 feet below the turf on Field 1 (6.4 E-06) does not exceed the MCP risk limit of 1E-05. The chronic HI estimate for this scenario (17.6) based on a young child aged 1 to 8 years and the subchronic HI estimate for this scenario (54.4) based on a young child aged 1 to 2 years is greater than the MCP HI limit of 1. Antimony contributed 90 percent to the total HI estimate with an individual chemical Subchronic Hazard Quotient of 49 and lead contributed 9 percent to the total HI estimate with an individual chemical subchronic Hazard Quotient of 5.2. This result assumes contact with antimony at a maximum concentration of 2,660 mg/kg measured in sample B-11 on Field 1 and lead at a maximum concentration of 1,610 mg/kg measured in sample B-12 on Field 1. Maximum concentrations were used as EPCs for antimony and lead because the data set did not meet the requirements for averaging as described in the MCP.

The ELCR estimate for Park Visitors contacting soil from 0.5 to 5 feet below the turf on Field 2 (3.8 E-06) does not exceed the MCP risk limit of 1E-05. The chronic HI estimate for this scenario (1.98) based on a young child aged 1 to 8 years and the subchronic HI estimate for this scenario (6.27) based on a young child aged 1 to 2 years is greater than the MCP HI limit of 1. Lead contributed 88 percent to the total HI estimate with an individual chemical Subchronic Hazard Quotient of 5.5. This result assumes contact with lead at a concentration of 1,710 mg/kg measured in sample B-3 (0.5 to 5 feet) in Field 2.

The ELCR estimate for Park Visitors contacting soil from 0.5 to 5 feet below the turf on Field 3 (3.4 E-06) does not exceed the MCP risk limit of 1E-05. The chronic HI estimate for this scenario (0.83) based on a young child aged 1 to 8 years does not exceed the MCP HI limit of 1. The subchronic HI estimate for this scenario (2.77) based on a young child aged 1 to 2 years is greater than the MCP HI limit of 1. Lead contributed 86 percent to the total HI estimate with an individual chemical Subchronic Hazard Quotient of 2.4. This result assumes contact with lead at a concentration of 755 mg/kg measured in sample B-13 (0.5 to 5 feet) in Field 3.

The Method 3 Human Health Risk Assessment Shortform spreadsheets are provided as Attachment 2 to this letter.

Interpretation of Risk Assessment Results

Contact with lead contributed most to the total cumulative receptor risk estimates except for the antimony hot spot in subsurface soils on Field 1 (sample B-11). Other constituents were detected in the soil samples and included in the total risk estimates; the presence of these other constituents is considered to pose relatively less risk from contact with soil. Thus, based on the limited data collected to date, decisions about the use of the fields in the near term will be driven primarily by the presence of lead in soil.

Lead is the constituent in soil that could pose the highest potential risk to health for young children if they had unlimited contact with soil on the fields because of the elevated concentration measured on Field 1. The maximum lead concentrations in topsoil from 0 to 0.5 feet below turf on Fields 2 and 3 were less than 200 mg/kg,

the MCP Soil Standard for unrestricted land use ("S-1 Soil Standards"). The maximum lead concentrations in deeper soil from 0.5 to 5 feet below turf on Field 2 and 3 (1,710 and 755 mg/kg, respectively) were greater than the S-1 and S-2/S-3 Soil Standards. The antimony concentration in deeper soil on Field 1 is greater than the MCP soil standards.

Recommendations for Temporary Continued Use of Ballfields

The landfill material contains lead that presents a potential risk if users of the field were exposed to lead-impacted soil through dermal contact, ingestion, or inhalation. To prevent contact with soil, the typical remedial response action that has been used at comparable sites is to place an Activity and Use Limitation (AUL) on the site that restricts disturbance of the underlying soil. In addition to the AUL, there needs to be a physical barrier that prevents users of the field from being able to readily access the impacted soil. This is usually done with a clean soil cover, asphalt paving, or a building, or a combination of those items.

Based on data collected to date, Arcadis makes the following specific recommendations regarding use of Fields 1, 2 and 3.

- The topsoil samples from Field 1 contain concentrations of lead that indicate a short-term risk from repeated exposure. Arcadis recommends that this field be closed and not used for recreational purposes until a remedy can be implemented. Our understanding is that fencing surrounds Field 1 and with gates can be used to restrict access. The concentrations of constituents in the material below the topsoil also indicates a long-term risk from repeated exposure. A possible remedy is to place 2 to 3 feet of clean cover over a geotextile membrane over the landfill material and provide notice of the requirements to maintain the cover through an AUL.
- The topsoil samples from Fields 2 and 3 did not contain concentrations of lead that indicate a short-term risk from repeated exposure. However, the concentration of lead in the material below the topsoil indicates a potential long-term risk from repeated exposure. On these fields, the topsoil was approximately 6 inches thick with an established grass layer approximately 2 inches thick. The topsoil and grass layer will reduce exposure to the underlying landfill material. However, the landfill material immediately below the topsoil presents a potential long-term risk. Under the MCP, the top three feet of soil are considered accessible and must meet the S-1 standards or show No Significant Risk from long-term exposure under current and future land uses. Otherwise, an AUL would be required to restrict access to soils from 0 to 3 feet.
- The current topsoil layer on Field 2 and 3 is not of sufficient thickness to be considered an adequate prevention of exposure to underlying landfill material for the long term. Arcadis recommends the field use for recreation only be allowed for the next 12 months. The fields should be maintained during this time and no excavation or exposure of the subsurface soil should be done without the proper safety precautions, health and safety plan and soil management plan prepared by an LSP.
- A response action consisting of placing a geotextile membrane over the landfill material with 2 to 3 feet of clean cover with an AUL is a possible remedy. The AUL will restrict exposing the underlying landfill material without the proper safety precautions and a soil management plan prepared by a Licensed Site Professional (LSP).
- The pathways between Fields 1 and 2 had landfill material (broken glass) at the surface. To mitigate an Imminent Hazard to Safety, a temporary measure for this area should be to cover the pathways with geotextile material and have clean cover placed over the geotextile to prevent exposure.

Peter McConarty
Town of Falmouth
February 18, 2025

- Fields 2 and 3 should be inspected before the start of the playing season and periodically inspected to ensure the grass cover is intact and no landfill material is exposed.

Next Steps

Under the MCP, there are several requirements to allow the site to be closed with a permanent solution.

The additional investigation to support closure will include but may not be limited to the following:

- Geophysical study to determine the extent of the landfill
- Groundwater assessment (installation of six monitoring wells) to determine groundwater flow and the groundwater quality. The assessment will also include testing of the irrigation supply well for the soccer field.
- Additional soil borings to verify lateral and vertical extent of the landfill. Includes the parking lot area.
- Phase I Initial Investigation and Tier Classification under the MCP
- Phase II Comprehensive Site Investigation (establish the nature and extent of the release).

The additional investigation can be completed in one year or less.

Once the additional investigation has been completed, a response action similar to those detailed above can be implemented with a remedial response plan.

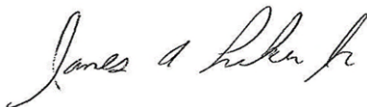
Limitations

The recommendations included in this report were based on limited data and those recommendations could change if new data becomes available that is significantly different or other contaminants are identified.

A Permanent Solution to close the site with MassDEP will depend on the additional investigation results and therefore cannot be guaranteed.

We look forward to discussing the information presented in this Status Report with your team. Please reach out with any questions.

Sincerely,
Arcadis U.S., Inc.



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Peter McConarty
Town of Falmouth
February 18, 2025



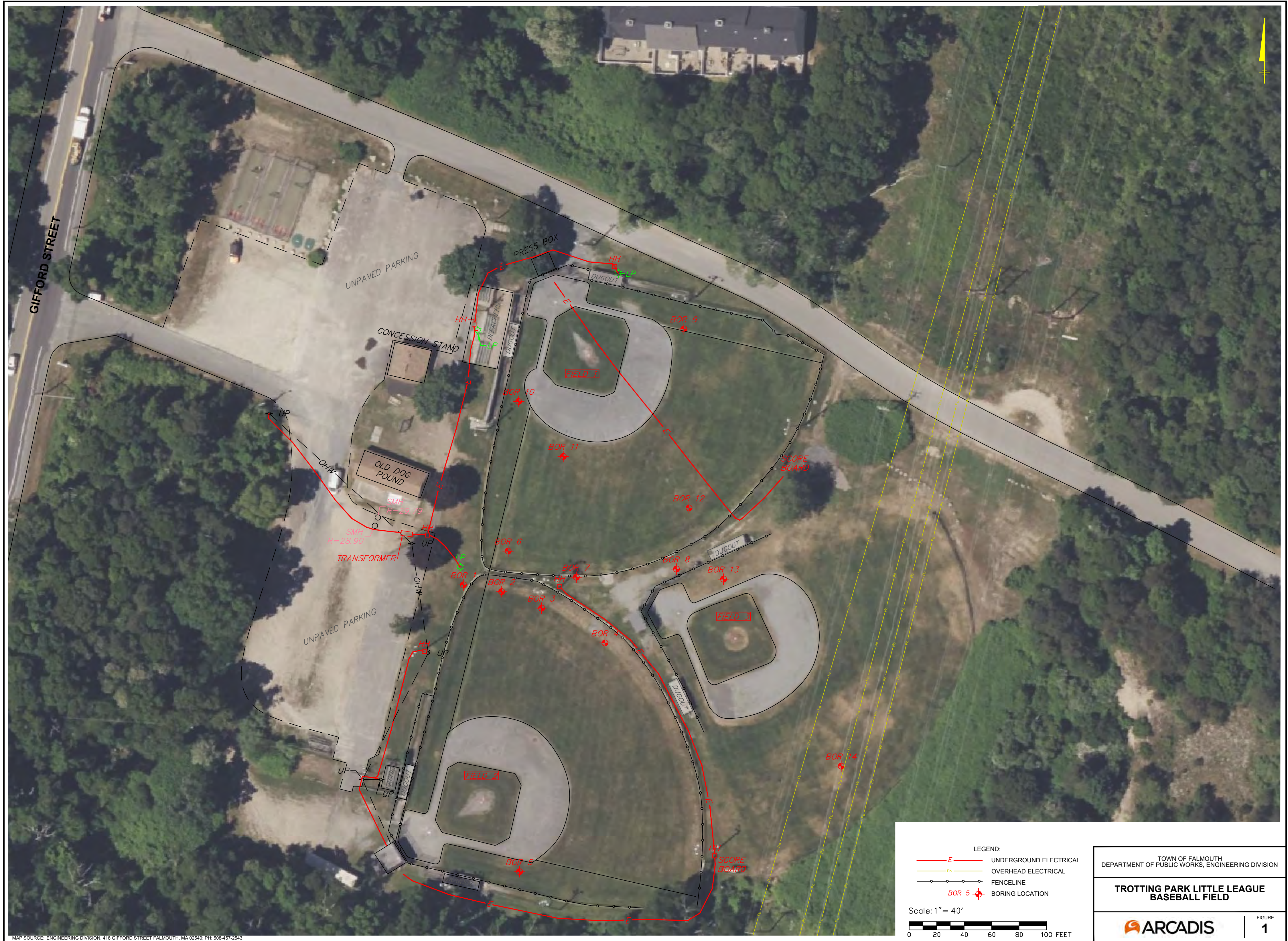
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Enclosures:

- Figure 1 – Boring Locations on Trotting Park Little League Baseball Field
- Attachment 1 – MassDEP Shortform for Park Visitor – Imminent Hazard Evaluation
- Attachment 2 – MassDEP Shortform for Park Visitor – Significant Risk Evaluation

Figure



Attachment 1

MassDEP Shortform for Park Visitor – Imminent Hazard Evaluation

Park Visitor - Soil Imminent Hazard Evaluation: Table PSIH-1
Exposure Point Concentration (EPC)
Based on Visitor Ages 1-6 (Cancer) and 1-2 (Noncancer)

Shortforms Version June 2024
 Method 3 Lookup Tables Version v0624

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ELCR (all chemicals) = 4.6E-08
 Subchronic HI (all chemicals) = 2.20

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	ELCR _{ingestion}	ELCR _{dermal}	ELCR _{total}	Subchronic			Notes
					HQ _{ing}	HQ _{derm}	HQ _{total}	
ANTIMONY	12.4				1.4E-01	8.9E-02	2.3E-01	
BARIUM	169				3.8E-03	2.4E-03	6.2E-03	
CADMIUM	2.36				1.1E-02	1.4E-03	1.2E-02	
LEAD	601				1.8E+00	1.4E-01	1.9E+00	Lead IH HQ limit is 1, not 10.
MERCURY	0.615							
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22	30.2				1.4E-04	2.9E-04	4.2E-04	
PETROLEUM HYDROCARBONS: ALIPHATICS - C19 to C36	28.5				2.1E-05	2.7E-05	4.9E-05	
POLYCHLORINATED BIPHENYLS (PCBs)	0.122	2.6E-08	2.0E-08	4.6E-08	1.1E-02	7.0E-03	1.8E-02	

Park Visitor Imminent Hazard - Soil: Table PSIH-2

Equations to Calculate Cancer Risk for Visitor (Age 1-6 Years)

Method 3 Lookup Tables Version v0624

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing} * CSF$$

$$LADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{c-ing} * EF_{ing} * ED * EP * C}{BW * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{c-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) ⁻¹
LADD	age/OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{c-ing}	OHM specific	dimensionless
RAF _{c-derm}	OHM specific	dimensionless
EF _{ing} and EF _{derm} = EF _{Cancer}	0.25	event/day
ED	1	day/event
EP	5	years
C	0.000001	kg/mg
BW	16.4	kg
AP _{lifetime}	70	years
SA	2032	cm ² /day
SAF	0.3742	mg/cm ²

Park Visitor Imminent Hazard - Soil: Table PSIH-3

Equations to Calculate Noncancer Risk for Visitor (Age 1-2 Years)

Method 3 Lookup Tables Version v0624

Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing,derm}	0.428571429	event/day
ED	1	day/event
EP	0.575	years
C	0.000001	kg/mg
BW	9.6	kg
AP	0.575	year
SA	1708	cm ² /day
SAF	0.3742	mg/cm ²

Park Visitor Imminent Hazard - Soil: Table PSIH-4 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) ⁻¹	See Tables PSIH-5 and PSIH-5b.
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific - sees Table PSIH-2, PSIH-2-a, PSIH-2-b, and PSIH-2c.
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal) - see Table PSIH-3.
RfD - Reference Dose	chemical specific	mg/kg-day	See Tables PSIH-5 and PSIH-5b.
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR - Soil Ingestion Rate	100	mg/day	MADEP 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-3.
RAF _c - Relative Absorption Factor for Cancer Effects (exposure route specific)	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant CSF. See Table PSIH-5
RAF _{NC} - Relative Absorption Factor for non-Cancer Effects (exposure route specific)	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant RfD. See Table PSIH-5
EF _{subchronic} - Exposure Frequency for subchronic exposure	0.429	event/day	3 events/week
EF _{cancer} - Exposure Frequency for cancer effects	0.247	event/day	3 events/week, 30 weeks/year
ED - Exposure Duration	1	day/event	
EP _{sc(1-2)} - Exposure Period for age group 1-2 for non-cancer	0.575	years	30 weeks
EP _{cancer-(1-2)} - Exposure Period for age group 1-2 for cancer	1	years	
EP _{cancer-(2-6)} - Exposure Period for age group 2-6 for cancer	4	years	
EP ₍₁₋₆₎ - Exposure Period for age group 1-6	5	years	
BW ₍₁₋₂₎ - Body Weight for age group 1-2	9.6	kg	50th percentile female body weight from US Department of Health and Human Services (USDHHS), adjusted according to the MassDEP risk assessment methodology. (See MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download .) Data source: USDHHS: Margaret A. McDowell, M.A, et al., "Anthropometric reference data for children and adults: United States, 2003-2006," National Health Statistics Reports, Number 10, October 22, 2008, Table 1, p 5. (https://www.cdc.gov/nchs/data/nhsr/nhsr010.pdf).
BW ₍₂₋₆₎ - Body Weight for age group 2-6	17.6	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₋₆₎ - Body Weight for age group 1-6	16.4	kg	Ibid BW ₍₁₋₂₎ Note.

Park Visitor Imminent Hazard - Soil: Table PSIH-4 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
AP _{subchronic} - Averaging Period for subchronic noncancer	0.575	years	30 weeks
AP _{C (1-2)} - Averaging Period for cancer for the age group 1-2 for vinyl chloride mutagenic effects	1	years	
AP _{lifetime} - Averaging Period for cancer (lifetime)	70	years	
ADAF ₍₁₋₂₎ - Age Defined Adjustment Factor for mutagenic effects for age group 1-2	10	dimensionless	
ADAF ₍₂₋₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 2-6	3	dimensionless	
SA ₍₁₋₂₎ - Surface Area for age group 1-2	1708	cm ² /day	SSA - 50th percentile female body surface area from EPA EFH 2011, adjusted by MassDEP risk characterization methodology. (See MassDEP MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download..) Sources of data: (1) EPA Exposure Factors Handbook, 2011 Edition (EPA EFH 2011), Chapter 7, "Table 7-11. Mean and Percentile Skin Surface Area (m ²) Derived From U.S. EPA Analysis of NHANES 1999–2006 for Children <21 Years and NHANES 2005–2006 for Adults >21 Years, Females", p 7-43. EPA/600/R-090/052F, September 2011. (https://rais.ornl.gov/documents/EFH_2011.pdf); and (2) EPA Exposure Factors Handbook (1997, Final Report), Table 6-7 (child), and Table 6-3 (age 18+) (https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=12464). (50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females)
SA ₍₂₋₆₎ - Surface Area for age group 2-6	2113	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₋₆₎ - Surface Area for age group 1-6	2032	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SAF ₍₁₋₂₎ - Surface Adherence Factor for age group 1-2	0.3717	mg _{soil} / cm ²	SAF developed for Short Forms according to procedures outlined in MassDEP MCP Risk Characterization Guidance for Disposal Sites, 2024. See SSA tab in Method 3 Lookup Tables Version v0624.xlsx.
SAF ₍₂₋₆₎ - Surface Adherence Factor for age group 2-6	0.3747	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₋₆₎ - Surface Adherence Factor for age group 1-6	0.3742	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.

Field 1 Surface Soil (0 - 0.5 feet below turf)

**Park Visitor Imminent Hazard - Soil: Table PSIH-5
Chemical-Specific Data**

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	CSF (mg/kg-day) ⁻¹	RAF _{c-ing}	RAF _{c-derm}	Subchronic RfD mg/kg-day	Subchronic RAF _{nc-ing}	Subchronic RAF _{nc-derm}	Notes
ANTIMONY				4.0E-04	1	0.1	
BARIUM				2.0E-01	1	0.1	
CADMIUM				5.0E-04	0.5	0.01	
LEAD				7.5E-04	0.5	0.006	
MERCURY				3.0E-04	0.5	0.1	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22				3.0E-01	0.3	0.1	
PETROLEUM HYDROCARBONS: ALIPHATICS - C19 to C36				6.0E+00	1	0.2	
POLYCHLORINATED BIPHENYLS (PCBs)	2.0E+00	1	0.1	5.0E-05	1	0.1	

Park Visitor - Soil Imminent Hazard Evaluation: Table PSIH-1
Exposure Point Concentration (EPC)
Based on Visitor Ages 1-6 (Cancer) and 1-2 (Noncancer)

Shortforms Version June 2024
 Method 3 Lookup Tables Version v0624

****Do not insert or delete any rows****

ELCR (all chemicals) = NA
 Subchronic HI (all chemicals) = 0.64

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	ELCR _{ingestion}	ELCR _{dermal}	ELCR _{total}	Subchronic			Notes
					HQ _{ing}	HQ _{derm}	HQ _{total}	
BARIUM	95.7				2.1E-03	1.4E-03	3.5E-03	
CHROMIUM (TOTAL)	41.3				9.3E-03	5.9E-03	1.5E-02	Cr(VI) limit is 200 mg/kg due to contact dermatitis.
LEAD	190				5.7E-01	4.4E-02	6.1E-01	Lead IH HQ limit is 1, not 10.
ZINC	228				3.4E-03	2.2E-03	5.6E-03	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22	12.2							

Park Visitor Imminent Hazard - Soil: Table PSIH-2

Equations to Calculate Cancer Risk for Visitor (Age 1-6 Years)

Method 3 Lookup Tables Version v0624

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing} * CSF$$

$$LADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{c-ing} * EF_{ing} * ED * EP * C}{BW * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{c-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) ⁻¹
LADD	age/OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{c-ing}	OHM specific	dimensionless
RAF _{c-derm}	OHM specific	dimensionless
EF _{ing} and EF _{derm} = EF _{Cancer}	0.25	event/day
ED	1	day/event
EP	5	years
C	0.000001	kg/mg
BW	16.4	kg
AP _{lifetime}	70	years
SA	2032	cm ² /day
SAF	0.3742	mg/cm ²

Park Visitor Imminent Hazard - Soil: Table PSIH-3

Equations to Calculate Noncancer Risk for Visitor (Age 1-2 Years)

Method 3 Lookup Tables Version v0624

Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing,derm}	0.428571429	event/day
ED	1	day/event
EP	0.575	years
C	0.000001	kg/mg
BW	9.6	kg
AP	0.575	year
SA	1708	cm ² /day
SAF	0.3742	mg/cm ²

Park Visitor Imminent Hazard - Soil: Table PSIH-4 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) ⁻¹	See Tables PSIH-5 and PSIH-5b.
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific - sees Table PSIH-2, PSIH-2-a, PSIH-2-b, and PSIH-2c.
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal) - see Table PSIH-3.
RfD - Reference Dose	chemical specific	mg/kg-day	See Tables PSIH-5 and PSIH-5b.
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR - Soil Ingestion Rate	100	mg/day	MADEP 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-3.
RAF _c - Relative Absorption Factor for Cancer Effects (exposure route specific)	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant CSF. See Table PSIH-5
RAF _{NC} - Relative Absorption Factor for non-Cancer Effects (exposure route specific)	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant RfD. See Table PSIH-5
EF _{subchronic} - Exposure Frequency for subchronic exposure	0.429	event/day	3 events/week
EF _{cancer} - Exposure Frequency for cancer effects	0.247	event/day	3 events/week, 30 weeks/year
ED - Exposure Duration	1	day/event	
EP _{sc(1-2)} - Exposure Period for age group 1-2 for non-cancer	0.575	years	30 weeks
EP _{cancer-(1-2)} - Exposure Period for age group 1-2 for cancer	1	years	
EP _{cancer-(2-6)} - Exposure Period for age group 2-6 for cancer	4	years	
EP ₍₁₋₆₎ - Exposure Period for age group 1-6	5	years	
BW ₍₁₋₂₎ - Body Weight for age group 1-2	9.6	kg	50th percentile female body weight from US Department of Health and Human Services (USDHHS), adjusted according to the MassDEP risk assessment methodology. (See MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download .) Data source: USDHHS: Margaret A. McDowell, M.A, et al., "Anthropometric reference data for children and adults: United States, 2003-2006," National Health Statistics Reports, Number 10, October 22, 2008, Table 1, p 5. (https://www.cdc.gov/nchs/data/nhsr/nhsr010.pdf).
BW ₍₂₋₆₎ - Body Weight for age group 2-6	17.6	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₋₆₎ - Body Weight for age group 1-6	16.4	kg	Ibid BW ₍₁₋₂₎ Note.

Park Visitor Imminent Hazard - Soil: Table PSIH-4 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
AP _{subchronic} - Averaging Period for subchronic noncancer	0.575	years	30 weeks
AP _{C (1-2)} - Averaging Period for cancer for the age group 1-2 for vinyl chloride mutagenic effects	1	years	
AP _{lifetime} - Averaging Period for cancer (lifetime)	70	years	
ADAF ₍₁₋₂₎ - Age Defined Adjustment Factor for mutagenic effects for age group 1-2	10	dimensionless	
ADAF ₍₂₋₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 2-6	3	dimensionless	
SA ₍₁₋₂₎ - Surface Area for age group 1-2	1708	cm ² /day	SSA - 50th percentile female body surface area from EPA EFH 2011, adjusted by MassDEP risk characterization methodology. (See MassDEP MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download..) Sources of data: (1) EPA Exposure Factors Handbook, 2011 Edition (EPA EFH 2011), Chapter 7, "Table 7-11. Mean and Percentile Skin Surface Area (m ²) Derived From U.S. EPA Analysis of NHANES 1999–2006 for Children <21 Years and NHANES 2005–2006 for Adults >21 Years, Females", p 7-43. EPA/600/R-090/052F, September 2011. (https://rais.ornl.gov/documents/EFH_2011.pdf); and (2) EPA Exposure Factors Handbook (1997, Final Report), Table 6-7 (child), and Table 6-3 (age 18+) (https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=12464). (50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females)
SA ₍₂₋₆₎ - Surface Area for age group 2-6	2113	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₋₆₎ - Surface Area for age group 1-6	2032	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SAF ₍₁₋₂₎ - Surface Adherence Factor for age group 1-2	0.3717	mg _{soil} / cm ²	SAF developed for Short Forms according to procedures outlined in MassDEP MCP Risk Characterization Guidance for Disposal Sites, 2024. See SSA tab in Method 3 Lookup Tables Version v0624.xlsx.
SAF ₍₂₋₆₎ - Surface Adherence Factor for age group 2-6	0.3747	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₋₆₎ - Surface Adherence Factor for age group 1-6	0.3742	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.

Field 2 Surface Soil (0 - 0.5 feet below turf)

**Park Visitor Imminent Hazard - Soil: Table PSIH-5
Chemical-Specific Data**

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	CSF (mg/kg-day) ⁻¹	RAF _{c-ing}	RAF _{c-derm}	Subchronic RfD mg/kg-day	Subchronic RAF _{nc-ing}	Subchronic RAF _{nc-derm}	Notes
BARIUM				2.0E-01	1	0.1	
CHROMIUM (TOTAL)				2.0E-02	1	0.1	
LEAD				7.5E-04	0.5	0.006	
ZINC				3.0E-01	1	0.1	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22				3.0E-01	0.3	0.1	

Park Visitor - Soil Imminent Hazard Evaluation: Table PSIH-1
Exposure Point Concentration (EPC)
Based on Visitor Ages 1-6 (Cancer) and 1-2 (Noncancer)

Shortforms Version June 2024
 Method 3 Lookup Tables Version v0624

****Do not insert or delete any rows****

ELCR (all chemicals) = NA
 Subchronic HI (all chemicals) = 0.18

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	ELCR _{ingestion}	ELCR _{dermal}	ELCR _{total}	Subchronic			Notes
					HQ _{ing}	HQ _{derm}	HQ _{total}	
BARIUM	91.6				2.1E-03	1.3E-03	3.4E-03	
CHROMIUM (TOTAL)	54.3				1.2E-02	7.8E-03	2.0E-02	Cr(VI) limit is 200 mg/kg due to contact dermatitis.
LEAD	45.2				1.4E-01	1.0E-02	1.5E-01	Lead IH HQ limit is 1, not 10.
NICKEL	24.2				5.4E-03	6.9E-03	1.2E-02	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22	10.1							

Park Visitor Imminent Hazard - Soil: Table PSIH-2

Equations to Calculate Cancer Risk for Visitor (Age 1-6 Years)

Method 3 Lookup Tables Version v0624

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing} * CSF$$

$$LADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{c-ing} * EF_{ing} * ED * EP * C}{BW * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{c-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) ⁻¹
LADD	age/OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{c-ing}	OHM specific	dimensionless
RAF _{c-derm}	OHM specific	dimensionless
EF _{ing} and EF _{derm} = EF _{Cancer}	0.25	event/day
ED	1	day/event
EP	5	years
C	0.000001	kg/mg
BW	16.4	kg
AP _{lifetime}	70	years
SA	2032	cm ² /day
SAF	0.3742	mg/cm ²

Park Visitor Imminent Hazard - Soil: Table PSIH-3

Equations to Calculate Noncancer Risk for Visitor (Age 1-2 Years)

Method 3 Lookup Tables Version v0624

Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing,derm}	0.428571429	event/day
ED	1	day/event
EP	0.575	years
C	0.000001	kg/mg
BW	9.6	kg
AP	0.575	year
SA	1708	cm ² /day
SAF	0.3742	mg/cm ²

Park Visitor Imminent Hazard - Soil: Table PSIH-4 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) ⁻¹	See Tables PSIH-5 and PSIH-5b.
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific - sees Table PSIH-2, PSIH-2-a, PSIH-2-b, and PSIH-2c.
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal) - see Table PSIH-3.
RfD - Reference Dose	chemical specific	mg/kg-day	See Tables PSIH-5 and PSIH-5b.
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR - Soil Ingestion Rate	100	mg/day	MADEP 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-3.
RAF _c - Relative Absorption Factor for Cancer Effects (exposure route specific)	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant CSF. See Table PSIH-5
RAF _{NC} - Relative Absorption Factor for non-Cancer Effects (exposure route specific)	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant RfD. See Table PSIH-5
EF _{subchronic} - Exposure Frequency for subchronic exposure	0.429	event/day	3 events/week
EF _{cancer} - Exposure Frequency for cancer effects	0.247	event/day	3 events/week, 30 weeks/year
ED - Exposure Duration	1	day/event	
EP _{sc(1-2)} - Exposure Period for age group 1-2 for non-cancer	0.575	years	30 weeks
EP _{cancer-(1-2)} - Exposure Period for age group 1-2 for cancer	1	years	
EP _{cancer-(2-6)} - Exposure Period for age group 2-6 for cancer	4	years	
EP ₍₁₋₆₎ - Exposure Period for age group 1-6	5	years	
BW ₍₁₋₂₎ - Body Weight for age group 1-2	9.6	kg	50th percentile female body weight from US Department of Health and Human Services (USDHHS), adjusted according to the MassDEP risk assessment methodology. (See MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download .) Data source: USDHHS: Margaret A. McDowell, M.A, et al., "Anthropometric reference data for children and adults: United States, 2003-2006," National Health Statistics Reports, Number 10, October 22, 2008, Table 1, p 5. (https://www.cdc.gov/nchs/data/nhsr/nhsr010.pdf).
BW ₍₂₋₆₎ - Body Weight for age group 2-6	17.6	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₋₆₎ - Body Weight for age group 1-6	16.4	kg	Ibid BW ₍₁₋₂₎ Note.

Park Visitor Imminent Hazard - Soil: Table PSIH-4 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
AP _{subchronic} - Averaging Period for subchronic noncancer	0.575	years	30 weeks
AP _{C (1-2)} - Averaging Period for cancer for the age group 1-2 for vinyl chloride mutagenic effects	1	years	
AP _{lifetime} - Averaging Period for cancer (lifetime)	70	years	
ADAF ₍₁₋₂₎ - Age Defined Adjustment Factor for mutagenic effects for age group 1-2	10	dimensionless	
ADAF ₍₂₋₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 2-6	3	dimensionless	
SA ₍₁₋₂₎ - Surface Area for age group 1-2	1708	cm ² /day	SSA - 50th percentile female body surface area from EPA EFH 2011, adjusted by MassDEP risk characterization methodology. (See MassDEP MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download..) Sources of data: (1) EPA Exposure Factors Handbook, 2011 Edition (EPA EFH 2011), Chapter 7, "Table 7-11. Mean and Percentile Skin Surface Area (m ²) Derived From U.S. EPA Analysis of NHANES 1999–2006 for Children <21 Years and NHANES 2005–2006 for Adults >21 Years, Females", p 7-43. EPA/600/R-090/052F, September 2011. (https://rais.ornl.gov/documents/EFH_2011.pdf); and (2) EPA Exposure Factors Handbook (1997, Final Report), Table 6-7 (child), and Table 6-3 (age 18+) (https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=12464). (50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females)
SA ₍₂₋₆₎ - Surface Area for age group 2-6	2113	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₋₆₎ - Surface Area for age group 1-6	2032	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SAF ₍₁₋₂₎ - Surface Adherence Factor for age group 1-2	0.3717	mg _{soil} / cm ²	SAF developed for Short Forms according to procedures outlined in MassDEP MCP Risk Characterization Guidance for Disposal Sites, 2024. See SSA tab in Method 3 Lookup Tables Version v0624.xlsx.
SAF ₍₂₋₆₎ - Surface Adherence Factor for age group 2-6	0.3747	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₋₆₎ - Surface Adherence Factor for age group 1-6	0.3742	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.

Field 3 Surface Soil (0 - 0.5 feet below turf)

**Park Visitor Imminent Hazard - Soil: Table PSIH-5
Chemical-Specific Data**

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	CSF (mg/kg-day) ⁻¹	RAF _{c-ing}	RAF _{c-derm}	Subchronic RfD mg/kg-day	Subchronic RAF _{nc-ing}	Subchronic RAF _{nc-derm}	Notes
BARIUM				2.0E-01	1	0.1	
CHROMIUM (TOTAL)				2.0E-02	1	0.1	
LEAD				7.5E-04	0.5	0.006	
NICKEL				2.0E-02	1	0.2	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22				3.0E-01	0.3	0.1	

Attachment 2

MassDEP Shortform for Park Visitor – Significant Risk Evaluation

Field 1 Surface Soil (0 - 0.5 feet below turf)

Park Visitor - Soil: Table PS-1

Exposure Point Concentration (EPC)

Based on Visitor Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

Shortforms Version June 2024

Method 3 Lookup Tables Version v0624

ELCR (all chemicals) = 6.6E-08

Chronic HI (all chemicals) = 0.63

Subchronic HI (all chemicals) = 2.1

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	ELCR _{ingestion}	ELCR _{dermal}	ELCR _{total}	Chronic			Subchronic			Notes
					HQ _{ing}	HQ _{derm}	HQ _{total}	HQ _{ing}	HQ _{derm}	HQ _{total}	
ANTIMONY	7.52				2.4E-02	2.0E-02	4.5E-02	8.4E-02	5.3E-02	1.4E-01	
BARIUM	83.8				5.4E-04	4.6E-04	1.0E-03	1.9E-03	1.2E-03	3.1E-03	
CADMIUM	1.52				2.0E-03	3.3E-04	2.3E-03	6.8E-03	8.7E-04	7.7E-03	
LEAD	601				5.2E-01	5.2E-02	5.7E-01	1.8E+00	1.4E-01	1.9E+00	Lead IH HQ limit is 1, not 10.
MERCURY	0.365				7.9E-04	1.3E-03	2.1E-03	2.7E-03	3.5E-03	6.2E-03	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22	16.5				2.1E-04	6.0E-04	8.1E-04	7.4E-05	1.6E-04	2.3E-04	
PETROLEUM HYDROCARBONS: ALIPHATICS - C19 to C36	13.4				8.7E-06	1.5E-05	2.3E-05	1.0E-05	1.3E-05	2.3E-05	
POLYCHLORINATED BIPHENYLS (PCBs)	0.087	3.5E-08	3.1E-08	6.6E-08	5.6E-03	4.7E-03	1.0E-02	7.8E-03	5.0E-03	1.3E-02	

Park Visitor - Soil: Table PS-2

Equations to Calculate Cancer Risk for Visitor (Age 1-31 Years)

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing(1-31)} * CSF$$

$$LADD_{ing(1-31)} = LADD_{ing(1-8)} + LADD_{ing(8-15)} + LADD_{ing(15-31)}$$

$$LADD_{ingx} = \frac{[OHM]_{soil} * IR_x * RAF_{c-ing} * EF_{ing} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm(1-31)} = LADD_{derm(1-8)} + LADD_{derm(8-15)} + LADD_{derm(15-31)}$$

$$LADD_{dermx} = \frac{[OHM]_{soil} * SA_x * RAF_{c-derm} * SAF_x * EF_{derm} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Method 3 Lookup Tables Version v0624

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) ⁻¹
LADD	age/OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR ₍₁₋₈₎	100	mg/day
IR ₍₈₋₁₅₎	50	mg/day
IR ₍₁₅₋₃₁₎	50	mg/day
RAF _{c-ing}	OHM specific	dimensionless
RAF _{c-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP ₍₁₋₈₎	7	years
EP ₍₈₋₁₅₎	7	years
EP ₍₁₅₋₃₁₎	16	years
C	0.000001	kg/mg
BW ₍₁₋₈₎	19.0	kg
BW ₍₈₋₁₅₎	46.1	kg
BW ₍₁₅₋₃₁₎	64.5	kg
AP _{lifetime} = AP _{cancer}	70	years
SA ₍₁₋₈₎	2244	cm ² /day
SA ₍₈₋₁₅₎	4051	cm ² /day
SA ₍₁₅₋₃₁₎	5322	cm ² /day
SAF ₍₁₋₈₎	0.3740	mg/cm ²
SAF ₍₈₋₁₅₎	0.1365	mg/cm ²
SAF ₍₁₅₋₃₁₎	0.0829	mg/cm ²

Park Visitor - Soil: Table PS-3

Equations to Calculate Chronic Noncancer Risk for Visitor (Age 1-8 Years)

Method 3 Lookup Tables Version v0624

Chronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Chronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP	7	years
C	0.000001	kg/mg
BW	19.0	kg
AP	7	year
SA	2244	cm ² /day

Park Visitor - Soil: Table PS-4

Equations to Calculate Subchronic Noncancer Risk for Visitor (Age 1-2 Years)

Method 3 Lookup Tables Version v0624

Subchronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Subchronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.429	event/day
ED	1	day/event
EP = EP _{sc (1-2)}	0.575342466	years
C	0.000001	kg/mg
BW	9.6	kg
AP = AP _{subchronic}	0.575	year
SA	1708	cm ² /day
SAF	0.3740	mg/cm ²

Park Visitor - Soil: Table PS-5

Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) ⁻¹	See Tables PS-6 and PS-6c
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
RfD - Reference Dose	chemical specific	mg/kg-day	See Table PS-6
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR ₍₁₋₂₎ - Soil Ingestion Rate for age group 1-2	100	mg/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-3.
IR ₍₁₋₈₎ - Soil Ingestion Rate for age group 1-8	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₈₋₁₅₎ - Soil Ingestion Rate for age group 8-15	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₅₋₃₁₎ - Soil Ingestion Rate for age group 15-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₂₋₆₎ - Soil Ingestion Rate for age group 2-6	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₆₋₁₆₎ - Soil Ingestion Rate for age group 6-16	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₆₋₃₁₎ - Soil Ingestion Rate for age group 16-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
RAF _c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant CSF. See Table PS-6
RAF _{NC} - Relative Absorption Factor for non-Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant RfD. See Table PS-6
EF _{subchronic} - Exposure Frequency for subchronic exposure	0.429	event/day	3 events/week
EF _{chronic} and EF _{cancer} - Exposure Frequency for chronic and Exposure Frequency for lifetime cancer	0.247	event/day	3 events/week, 30 weeks/year
ED - Exposure Duration	1	day/event	
EP _{sc (1-2)} - Exposure Period for age group 1-2 for Subchronic exposure	0.575	years	30 weeks
EP ₍₁₋₈₎ - Exposure Period for age group 1-8	7	years	
EP ₍₈₋₁₅₎ - Exposure Period for age group 8-15	7	years	
EP ₍₁₅₋₃₁₎ - Exposure Period for age group 15-31	16	years	
EP ₍₁₋₂₎ - Exposure Period for age group 1-2 (mutagenic effects)	1	years	
EP ₍₂₋₆₎ - Exposure Period for age group 2-6 (mutagenic effects)	4	years	
EP ₍₆₋₁₆₎ - Exposure Period for age group 6-16 (mutagenic effects)	10	years	
EP ₍₁₆₋₃₁₎ - Exposure Period for age group 16-31 (mutagenic effects)	15	years	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
BW ₍₁₋₂₎ - Body Weight for age group 1-2; (subchronic, and mutagenic)	9.6	kg	50th percentile female body weight from US Department of Health and Human Services (USDHHS), adjusted according to the MassDEP risk assessment methodology. (See MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download .) Data source: USDHHS: Margaret A. McDowell, M.A, et al., "Anthropometric reference data for children and adults: United States, 2003-2006," National Health Statistics Reports, Number 10, October 22, 2008, Table 1, p 5. (https://www.cdc.gov/nchs/data/nhsr/nhsr010.pdf).
BW ₍₁₋₈₎ - Body Weight for age group 1-8	19.0	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₈₋₁₅₎ - Body Weight for age group 8-15	46.1	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₅₋₃₁₎ - Body Weight for age group 15-31	64.5	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₂₋₆₎ - Body Weight for age group 2-6	17.6	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₆₋₁₆₎ - Body Weight for age group 6-16	43.2	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₆₋₃₁₎ - Body Weight for age group 16-31	65.0	kg	Ibid BW ₍₁₋₂₎ Note.
AP _{subchronic} - Averaging Period for subchronic noncancer	0.575	years	30 weeks
AP _{chronic} - Averaging Period for chronic noncancer	7	years	
AP _{C (1-2)} - Averaging Period for cancer for the age group 1-2 for vinyl chloride mutagenic effects	1	years	
AP _{cancer} - Averaging Period for cancer/lifetime	70	years	
ADAF ₍₁₋₂₎ - Age Defined Adjustment Factor for mutagenic effects for age group 1-2	10	dimensionless	
ADAF ₍₂₋₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 2-6	3	dimensionless	
ADAF ₍₆₋₁₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 6-16	3	dimensionless	
ADAF ₍₁₆₋₃₁₎ - Age Defined Adjustment Factor for mutagenic effects for age group 16-31	1	dimensionless	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
SA ₍₁₋₂₎ - Surface Area for age group 1-2	1708	cm ² /day	SSA - 50th percentile female body surface area from EPA EFH 2011, adjusted by MassDEP risk characterization methodology. (See MassDEP MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download..) Sources of data: (1) EPA Exposure Factors Handbook, 2011 Edition (EPA EFH 2011), Chapter 7, "Table 7-11. Mean and Percentile Skin Surface Area (m2) Derived From U.S. EPA Analysis of NHANES 1999–2006 for Children <21 Years and NHANES 2005–2006 for Adults >21 Years, Females", p 7-43. EPA/600/R-090/052F, September 2011. (https://rais.ornl.gov/documents/EFH_2011.pdf); and (2) EPA Exposure Factors Handbook (1997, Final Report), Table 6-7 (child), and Table 6-3 (age 18+) (https://cfpub.epa.gov/ncea/risk/recorddisplay.cfm?deid=12464). (50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females.)
SA ₍₁₋₈₎ - Surface Area for age group 1-8	2244	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₈₋₁₅₎ - Surface Area for age group 8-15	4051	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₅₋₃₁₎ - Surface Area for age group 15-31	5322	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₂₋₆₎ - Surface Area for age group 2-6	2113	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₆₋₁₆₎ - Surface Area for age group 6-16	3875	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₆₋₃₁₎ - Surface Area for age group 16-31	5354	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SAF ₍₁₋₂₎ - Surface Adherence Factor for age group 1-2	0.3717	mg _{soil} / cm ²	SAF developed for Short Forms according to procedures outlined in MassDEP MCP Risk Characterization Guidance for Disposal Sites, 2024. See SSA tab in Method 3 Lookup Tables Version v0624.xlsx.
SAF ₍₁₋₈₎ - Surface Adherence Factor for age group 1-8	0.3740	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₈₋₁₅₎ - Surface Adherence Factor for age group 8-15	0.1365	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₅₋₃₁₎ - Surface Adherence Factor for age group 15-31	0.0829	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₂₋₆₎ - Surface Adherence Factor for age group 2-6	0.3747	mg/cm ⁴	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₆₋₁₆₎ - Surface Adherence Factor for age group 6-16	0.1702	mg/cm ⁵	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₆₋₃₁₎ - Surface Adherence Factor for age group 16-31	0.0826	mg/cm ²	Ibid SAF ₍₁₋₂₎ Note.

Field 1 Surface Soil (0 - 0.5 feet below turf)

Park Visitor - Soil: Table PS-6
Chemical-Specific Data

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	CSF (mg/kg-day) ⁻¹	RAF _{c-ing}	RAF _{c-derm}	Chronic RfD mg/kg-day	Subchronic RfD mg/kg-day	Chronic RAF _{nc-ing}	Chronic RAF _{nc-derm}	Subchronic RAF _{nc-ing}	Subchronic RAF _{nc-derm}	Notes
ANTIMONY				4.0E-04	4.0E-04	1	0.1	1	0.1	
BARIUM				2.0E-01	2.0E-01	1	0.1	1	0.1	
CADMIUM				5.0E-04	5.0E-04	0.5	0.01	0.5	0.01	
LEAD				7.5E-04	7.5E-04	0.5	0.006	0.5	0.006	
MERCURY				3.0E-04	3.0E-04	0.5	0.1	0.5	0.1	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22				3.0E-02	3.0E-01	0.3	0.1	0.3	0.1	
PETROLEUM HYDROCARBONS: ALIPHATICS - C19 to C36				2.0E+00	6.0E+00	1	0.2	1	0.2	
POLYCHLORINATED BIPHENYLS (PCBs)	2.0E+00	1	0.1	2.0E-05	5.0E-05	1	0.1	1	0.1	

Field 1 Subsurface Soil (0.5 - 5 feet below turf)

Park Visitor - Soil: Table PS-1

Exposure Point Concentration (EPC)

Based on Visitor Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

Shortforms Version June 2024

Method 3 Lookup Tables Version v0624

ELCR (all chemicals) = 6.4E-06

Chronic HI (all chemicals) = 17.6

Subchronic HI (all chemicals) = 54.4

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	ELCR _{ingestion}	ELCR _{dermal}	ELCR _{total}	Chronic			Subchronic			Notes
					HQ _{ing}	HQ _{derm}	HQ _{total}	HQ _{ing}	HQ _{derm}	HQ _{total}	
ANTIMONY	2,660				8.6E+00	7.2E+00	1.6E+01	3.0E+01	1.9E+01	4.9E+01	
ARSENIC	27.3	4.1E-06	2.2E-06	6.3E-06	5.9E-02	3.0E-02	8.9E-02	2.0E-01	7.8E-02	2.8E-01	
BARIUM	288				1.9E-03	1.6E-03	3.4E-03	6.5E-03	4.1E-03	1.1E-02	
CADMIUM	3.61				4.7E-03	7.9E-04	5.5E-03	1.6E-02	2.1E-03	1.8E-02	
CHROMIUM (TOTAL)	19.4				8.4E-03	7.0E-03	1.5E-02	4.3E-03	2.8E-03	7.1E-03	Cr(VI) limit is 200 mg/kg due to contact dermatitis.
LEAD	1,610				1.4E+00	1.4E-01	1.5E+00	4.8E+00	3.7E-01	5.2E+00	Lead IH HQ limit is 1, not 10.
NICKEL	17.5				1.1E-03	1.9E-03	3.0E-03	3.9E-03	5.0E-03	8.9E-03	
ZINC	4,150				1.8E-02	1.5E-02	3.3E-02	6.2E-02	3.9E-02	1.0E-01	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22	21.6				2.8E-04	7.8E-04	1.1E-03	9.7E-05	2.0E-04	3.0E-04	
PETROLEUM HYDROCARBONS: ALIPHATICS - C19 to C36	21.0				1.4E-05	2.3E-05	3.6E-05	1.6E-05	2.0E-05	3.6E-05	
POLYCHLORINATED BIPHENYLS (PCBs)	0.157	6.3E-08	5.6E-08	1.2E-07	1.0E-02	8.5E-03	1.9E-02	1.4E-02	8.9E-03	2.3E-02	

Park Visitor - Soil: Table PS-2

Equations to Calculate Cancer Risk for Visitor (Age 1-31 Years)

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing(1-31)} * CSF$$

$$LADD_{ing(1-31)} = LADD_{ing(1-8)} + LADD_{ing(8-15)} + LADD_{ing(15-31)}$$

$$LADD_{ingx} = \frac{[OHM]_{soil} * IR_x * RAF_{c-ing} * EF_{ing} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm(1-31)} = LADD_{derm(1-8)} + LADD_{derm(8-15)} + LADD_{derm(15-31)}$$

$$LADD_{dermx} = \frac{[OHM]_{soil} * SA_x * RAF_{c-derm} * SAF_x * EF_{derm} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Method 3 Lookup Tables Version v0624

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) ⁻¹
LADD	age/OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR ₍₁₋₈₎	100	mg/day
IR ₍₈₋₁₅₎	50	mg/day
IR ₍₁₅₋₃₁₎	50	mg/day
RAF _{c-ing}	OHM specific	dimensionless
RAF _{c-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP ₍₁₋₈₎	7	years
EP ₍₈₋₁₅₎	7	years
EP ₍₁₅₋₃₁₎	16	years
C	0.000001	kg/mg
BW ₍₁₋₈₎	19.0	kg
BW ₍₈₋₁₅₎	46.1	kg
BW ₍₁₅₋₃₁₎	64.5	kg
AP _{lifetime} = AP _{cancer}	70	years
SA ₍₁₋₈₎	2244	cm ² /day
SA ₍₈₋₁₅₎	4051	cm ² /day
SA ₍₁₅₋₃₁₎	5322	cm ² /day
SAF ₍₁₋₈₎	0.3740	mg/cm ²
SAF ₍₈₋₁₅₎	0.1365	mg/cm ²
SAF ₍₁₅₋₃₁₎	0.0829	mg/cm ²

Park Visitor - Soil: Table PS-3

Equations to Calculate Chronic Noncancer Risk for Visitor (Age 1-8 Years)

Method 3 Lookup Tables Version v0624

Chronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Chronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP	7	years
C	0.000001	kg/mg
BW	19.0	kg
AP	7	year
SA	2244	cm ² /day

Park Visitor - Soil: Table PS-4

Equations to Calculate Subchronic Noncancer Risk for Visitor (Age 1-2 Years)

Method 3 Lookup Tables Version v0624

Subchronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Subchronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.429	event/day
ED	1	day/event
EP = EP _{sc (1-2)}	0.575342466	years
C	0.000001	kg/mg
BW	9.6	kg
AP = AP _{subchronic}	0.575	year
SA	1708	cm ² /day
SAF	0.3740	mg/cm ²

Park Visitor - Soil: Table PS-5

Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) ⁻¹	See Tables PS-6 and PS-6c
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
RfD - Reference Dose	chemical specific	mg/kg-day	See Table PS-6
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR ₍₁₋₂₎ - Soil Ingestion Rate for age group 1-2	100	mg/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-3.
IR ₍₁₋₈₎ - Soil Ingestion Rate for age group 1-8	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₈₋₁₅₎ - Soil Ingestion Rate for age group 8-15	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₅₋₃₁₎ - Soil Ingestion Rate for age group 15-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₂₋₆₎ - Soil Ingestion Rate for age group 2-6	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₆₋₁₆₎ - Soil Ingestion Rate for age group 6-16	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₆₋₃₁₎ - Soil Ingestion Rate for age group 16-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
RAF _c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant CSF. See Table PS-6
RAF _{NC} - Relative Absorption Factor for non-Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant RfD. See Table PS-6
EF _{subchronic} - Exposure Frequency for subchronic exposure	0.429	event/day	3 events/week
EF _{chronic} and EF _{cancer} - Exposure Frequency for chronic and Exposure Frequency for lifetime cancer	0.247	event/day	3 events/week, 30 weeks/year
ED - Exposure Duration	1	day/event	
EP _{sc (1-2)} - Exposure Period for age group 1-2 for Subchronic exposure	0.575	years	30 weeks
EP ₍₁₋₈₎ - Exposure Period for age group 1-8	7	years	
EP ₍₈₋₁₅₎ - Exposure Period for age group 8-15	7	years	
EP ₍₁₅₋₃₁₎ - Exposure Period for age group 15-31	16	years	
EP ₍₁₋₂₎ - Exposure Period for age group 1-2 (mutagenic effects)	1	years	
EP ₍₂₋₆₎ - Exposure Period for age group 2-6 (mutagenic effects)	4	years	
EP ₍₆₋₁₆₎ - Exposure Period for age group 6-16 (mutagenic effects)	10	years	
EP ₍₁₆₋₃₁₎ - Exposure Period for age group 16-31 (mutagenic effects)	15	years	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
BW ₍₁₋₂₎ - Body Weight for age group 1-2; (subchronic, and mutagenic)	9.6	kg	50th percentile female body weight from US Department of Health and Human Services (USDHHS), adjusted according to the MassDEP risk assessment methodology. (See MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download .) Data source: USDHHS: Margaret A. McDowell, M.A, et al., "Anthropometric reference data for children and adults: United States, 2003-2006," National Health Statistics Reports, Number 10, October 22, 2008, Table 1, p 5. (https://www.cdc.gov/nchs/data/nhsr/nhsr010.pdf).
BW ₍₁₋₈₎ - Body Weight for age group 1-8	19.0	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₈₋₁₅₎ - Body Weight for age group 8-15	46.1	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₅₋₃₁₎ - Body Weight for age group 15-31	64.5	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₂₋₆₎ - Body Weight for age group 2-6	17.6	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₆₋₁₆₎ - Body Weight for age group 6-16	43.2	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₆₋₃₁₎ - Body Weight for age group 16-31	65.0	kg	Ibid BW ₍₁₋₂₎ Note.
AP _{subchronic} - Averaging Period for subchronic noncancer	0.575	years	30 weeks
AP _{chronic} - Averaging Period for chronic noncancer	7	years	
AP _{C (1-2)} - Averaging Period for cancer for the age group 1-2 for vinyl chloride mutagenic effects	1	years	
AP _{cancer} - Averaging Period for cancer/lifetime	70	years	
ADAF ₍₁₋₂₎ - Age Defined Adjustment Factor for mutagenic effects for age group 1-2	10	dimensionless	
ADAF ₍₂₋₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 2-6	3	dimensionless	
ADAF ₍₆₋₁₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 6-16	3	dimensionless	
ADAF ₍₁₆₋₃₁₎ - Age Defined Adjustment Factor for mutagenic effects for age group 16-31	1	dimensionless	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
SA ₍₁₋₂₎ - Surface Area for age group 1-2	1708	cm ² /day	SSA - 50th percentile female body surface area from EPA EFH 2011, adjusted by MassDEP risk characterization methodology. (See MassDEP MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download..) Sources of data: (1) EPA Exposure Factors Handbook, 2011 Edition (EPA EFH 2011), Chapter 7, "Table 7-11. Mean and Percentile Skin Surface Area (m2) Derived From U.S. EPA Analysis of NHANES 1999–2006 for Children <21 Years and NHANES 2005–2006 for Adults >21 Years, Females", p 7-43. EPA/600/R-090/052F, September 2011. (https://rais.ornl.gov/documents/EFH_2011.pdf); and (2) EPA Exposure Factors Handbook (1997, Final Report), Table 6-7 (child), and Table 6-3 (age 18+) (https://cfpub.epa.gov/ncea/risk/recorddisplay.cfm?deid=12464). (50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females.)
SA ₍₁₋₈₎ - Surface Area for age group 1-8	2244	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₈₋₁₅₎ - Surface Area for age group 8-15	4051	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₅₋₃₁₎ - Surface Area for age group 15-31	5322	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₂₋₆₎ - Surface Area for age group 2-6	2113	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₆₋₁₆₎ - Surface Area for age group 6-16	3875	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₆₋₃₁₎ - Surface Area for age group 16-31	5354	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SAF ₍₁₋₂₎ - Surface Adherence Factor for age group 1-2	0.3717	mg _{soil} / cm ²	SAF developed for Short Forms according to procedures outlined in MassDEP MCP Risk Characterization Guidance for Disposal Sites, 2024. See SSA tab in Method 3 Lookup Tables Version v0624.xlsx.
SAF ₍₁₋₈₎ - Surface Adherence Factor for age group 1-8	0.3740	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₈₋₁₅₎ - Surface Adherence Factor for age group 8-15	0.1365	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₅₋₃₁₎ - Surface Adherence Factor for age group 15-31	0.0829	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₂₋₆₎ - Surface Adherence Factor for age group 2-6	0.3747	mg/cm ⁴	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₆₋₁₆₎ - Surface Adherence Factor for age group 6-16	0.1702	mg/cm ⁵	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₆₋₃₁₎ - Surface Adherence Factor for age group 16-31	0.0826	mg/cm ²	Ibid SAF ₍₁₋₂₎ Note.

Field 1 Surface Soil (0 - 0.5 feet below turf)

Park Visitor - Soil: Table PS-6
Chemical-Specific Data

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	CSF (mg/kg-day) ⁻¹	RAF _{c-ing}	RAF _{c-derm}	Chronic RfD mg/kg-day	Subchronic RfD mg/kg-day	Chronic RAF _{nc-ing}	Chronic RAF _{nc-derm}	Subchronic RAF _{nc-ing}	Subchronic RAF _{nc-derm}	Notes
ANTIMONY				4.0E-04	4.0E-04	1	0.1	1	0.1	
ARSENIC	1.5E+00	0.5	0.03	3.0E-04	3.0E-04	0.5	0.03	0.5	0.03	
BARIUM				2.0E-01	2.0E-01	1	0.1	1	0.1	
CADMIUM				5.0E-04	5.0E-04	0.5	0.01	0.5	0.01	
CHROMIUM (TOTAL)				3.0E-03	2.0E-02	1	0.1	1	0.1	
LEAD				7.5E-04	7.5E-04	0.5	0.006	0.5	0.006	
NICKEL				2.0E-02	2.0E-02	1	0.2	1	0.2	
ZINC				3.0E-01	3.0E-01	1	0.1	1	0.1	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22				3.0E-02	3.0E-01	0.3	0.1	0.3	0.1	
PETROLEUM HYDROCARBONS: ALIPHATICS - C19 to C36				2.0E+00	6.0E+00	1	0.2	1	0.2	
POLYCHLORINATED BIPHENYLS (PCBs)	2.0E+00	1	0.1	2.0E-05	5.0E-05	1	0.1	1	0.1	

Field 2 Surface Soil (0 - 0.5 feet below turf)

Park Visitor - Soil: Table PS-1

Exposure Point Concentration (EPC)

Based on Visitor Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

Shortforms Version June 2024

Method 3 Lookup Tables Version v0624

ELCR (all chemicals) = NA

Chronic HI (all chemicals) = 0.09

Subchronic HI (all chemicals) = 0.23

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Oil or Hazardous Material	EPC (mg/kg)	ELCR _{ingestion}	ELCR _{dermal}	ELCR _{total}	Chronic			Subchronic			Notes
					HQ _{ing}	HQ _{derm}	HQ _{total}	HQ _{ing}	HQ _{derm}	HQ _{total}	
BARIUM	70.1				4.5E-04	3.8E-04	8.4E-04	1.6E-03	1.0E-03	2.6E-03	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22	9.79				1.3E-04	3.6E-04	4.8E-04	4.4E-05	9.3E-05	1.4E-04	
CHROMIUM (TOTAL)	29.3				1.3E-02	1.1E-02	2.3E-02	6.6E-03	4.2E-03	1.1E-02	Cr(VI) limit is 200 mg/kg due to contact dermatitis.
LEAD	66.8				5.8E-02	5.8E-03	6.4E-02	2.0E-01	1.5E-02	2.1E-01	Lead IH HQ limit is 1, not 10.
ZINC	97.5				4.2E-04	3.5E-04	7.8E-04	1.5E-03	9.2E-04	2.4E-03	

Park Visitor - Soil: Table PS-2

Equations to Calculate Cancer Risk for Visitor (Age 1-31 Years)

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing(1-31)} * CSF$$

$$LADD_{ing(1-31)} = LADD_{ing(1-8)} + LADD_{ing(8-15)} + LADD_{ing(15-31)}$$

$$LADD_{ingx} = \frac{[OHM]_{soil} * IR_x * RAF_{c-ing} * EF_{ing} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm(1-31)} = LADD_{derm(1-8)} + LADD_{derm(8-15)} + LADD_{derm(15-31)}$$

$$LADD_{dermx} = \frac{[OHM]_{soil} * SA_x * RAF_{c-derm} * SAF_x * EF_{derm} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Method 3 Lookup Tables Version v0624

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) ⁻¹
LADD	age/OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR ₍₁₋₈₎	100	mg/day
IR ₍₈₋₁₅₎	50	mg/day
IR ₍₁₅₋₃₁₎	50	mg/day
RAF _{c-ing}	OHM specific	dimensionless
RAF _{c-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP ₍₁₋₈₎	7	years
EP ₍₈₋₁₅₎	7	years
EP ₍₁₅₋₃₁₎	16	years
C	0.000001	kg/mg
BW ₍₁₋₈₎	19.0	kg
BW ₍₈₋₁₅₎	46.1	kg
BW ₍₁₅₋₃₁₎	64.5	kg
AP _{lifetime} = AP _{cancer}	70	years
SA ₍₁₋₈₎	2244	cm ² /day
SA ₍₈₋₁₅₎	4051	cm ² /day
SA ₍₁₅₋₃₁₎	5322	cm ² /day
SAF ₍₁₋₈₎	0.3740	mg/cm ²
SAF ₍₈₋₁₅₎	0.1365	mg/cm ²
SAF ₍₁₅₋₃₁₎	0.0829	mg/cm ²

Park Visitor - Soil: Table PS-3

Equations to Calculate Chronic Noncancer Risk for Visitor (Age 1-8 Years)

Method 3 Lookup Tables Version v0624

Chronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Chronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP	7	years
C	0.000001	kg/mg
BW	19.0	kg
AP	7	year
SA	2244	cm ² /day

Park Visitor - Soil: Table PS-4

Equations to Calculate Subchronic Noncancer Risk for Visitor (Age 1-2 Years)

Method 3 Lookup Tables Version v0624

Subchronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Subchronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.429	event/day
ED	1	day/event
EP = EP _{sc (1-2)}	0.575342466	years
C	0.000001	kg/mg
BW	9.6	kg
AP = AP _{subchronic}	0.575	year
SA	1708	cm ² /day
SAF	0.3740	mg/cm ²

Park Visitor - Soil: Table PS-5

Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) ⁻¹	See Tables PS-6 and PS-6c
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
RfD - Reference Dose	chemical specific	mg/kg-day	See Table PS-6
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR ₍₁₋₂₎ - Soil Ingestion Rate for age group 1-2	100	mg/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-3.
IR ₍₁₋₈₎ - Soil Ingestion Rate for age group 1-8	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₈₋₁₅₎ - Soil Ingestion Rate for age group 8-15	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₅₋₃₁₎ - Soil Ingestion Rate for age group 15-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₂₋₆₎ - Soil Ingestion Rate for age group 2-6	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₆₋₁₆₎ - Soil Ingestion Rate for age group 6-16	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₆₋₃₁₎ - Soil Ingestion Rate for age group 16-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
RAF _c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant CSF. See Table PS-6
RAF _{NC} - Relative Absorption Factor for non-Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant RfD. See Table PS-6
EF _{subchronic} - Exposure Frequency for subchronic exposure	0.429	event/day	3 events/week
EF _{chronic} and EF _{cancer} - Exposure Frequency for chronic and Exposure Frequency for lifetime cancer	0.247	event/day	3 events/week, 30 weeks/year
ED - Exposure Duration	1	day/event	
EP _{sc (1-2)} - Exposure Period for age group 1-2 for Subchronic exposure	0.575	years	30 weeks
EP ₍₁₋₈₎ - Exposure Period for age group 1-8	7	years	
EP ₍₈₋₁₅₎ - Exposure Period for age group 8-15	7	years	
EP ₍₁₅₋₃₁₎ - Exposure Period for age group 15-31	16	years	
EP ₍₁₋₂₎ - Exposure Period for age group 1-2 (mutagenic effects)	1	years	
EP ₍₂₋₆₎ - Exposure Period for age group 2-6 (mutagenic effects)	4	years	
EP ₍₆₋₁₆₎ - Exposure Period for age group 6-16 (mutagenic effects)	10	years	
EP ₍₁₆₋₃₁₎ - Exposure Period for age group 16-31 (mutagenic effects)	15	years	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
BW ₍₁₋₂₎ - Body Weight for age group 1-2; (subchronic, and mutagenic)	9.6	kg	50th percentile female body weight from US Department of Health and Human Services (USDHHS), adjusted according to the MassDEP risk assessment methodology. (See MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download .) Data source: USDHHS: Margaret A. McDowell, M.A, et al., "Anthropometric reference data for children and adults: United States, 2003-2006," National Health Statistics Reports, Number 10, October 22, 2008, Table 1, p 5. (https://www.cdc.gov/nchs/data/nhsr/nhsr010.pdf).
BW ₍₁₋₈₎ - Body Weight for age group 1-8	19.0	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₈₋₁₅₎ - Body Weight for age group 8-15	46.1	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₅₋₃₁₎ - Body Weight for age group 15-31	64.5	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₂₋₆₎ - Body Weight for age group 2-6	17.6	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₆₋₁₆₎ - Body Weight for age group 6-16	43.2	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₆₋₃₁₎ - Body Weight for age group 16-31	65.0	kg	Ibid BW ₍₁₋₂₎ Note.
AP _{subchronic} - Averaging Period for subchronic noncancer	0.575	years	30 weeks
AP _{chronic} - Averaging Period for chronic noncancer	7	years	
AP _{C (1-2)} - Averaging Period for cancer for the age group 1-2 for vinyl chloride mutagenic effects	1	years	
AP _{cancer} - Averaging Period for cancer/lifetime	70	years	
ADAF ₍₁₋₂₎ - Age Defined Adjustment Factor for mutagenic effects for age group 1-2	10	dimensionless	
ADAF ₍₂₋₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 2-6	3	dimensionless	
ADAF ₍₆₋₁₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 6-16	3	dimensionless	
ADAF ₍₁₆₋₃₁₎ - Age Defined Adjustment Factor for mutagenic effects for age group 16-31	1	dimensionless	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
SA ₍₁₋₂₎ - Surface Area for age group 1-2	1708	cm ² /day	SSA - 50th percentile female body surface area from EPA EFH 2011, adjusted by MassDEP risk characterization methodology. (See MassDEP MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download..) Sources of data: (1) EPA Exposure Factors Handbook, 2011 Edition (EPA EFH 2011), Chapter 7, "Table 7-11. Mean and Percentile Skin Surface Area (m2) Derived From U.S. EPA Analysis of NHANES 1999–2006 for Children <21 Years and NHANES 2005–2006 for Adults >21 Years, Females", p 7-43. EPA/600/R-090/052F, September 2011. (https://rais.ornl.gov/documents/EFH_2011.pdf); and (2) EPA Exposure Factors Handbook (1997, Final Report), Table 6-7 (child), and Table 6-3 (age 18+) (https://cfpub.epa.gov/ncea/risk/recorddisplay.cfm?deid=12464). (50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females.)
SA ₍₁₋₈₎ - Surface Area for age group 1-8	2244	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₈₋₁₅₎ - Surface Area for age group 8-15	4051	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₅₋₃₁₎ - Surface Area for age group 15-31	5322	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₂₋₆₎ - Surface Area for age group 2-6	2113	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₆₋₁₆₎ - Surface Area for age group 6-16	3875	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₆₋₃₁₎ - Surface Area for age group 16-31	5354	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SAF ₍₁₋₂₎ - Surface Adherence Factor for age group 1-2	0.3717	mg _{soil} / cm ²	SAF developed for Short Forms according to procedures outlined in MassDEP MCP Risk Characterization Guidance for Disposal Sites, 2024. See SSA tab in Method 3 Lookup Tables Version v0624.xlsx.
SAF ₍₁₋₈₎ - Surface Adherence Factor for age group 1-8	0.3740	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₈₋₁₅₎ - Surface Adherence Factor for age group 8-15	0.1365	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₅₋₃₁₎ - Surface Adherence Factor for age group 15-31	0.0829	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₂₋₆₎ - Surface Adherence Factor for age group 2-6	0.3747	mg/cm ⁴	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₆₋₁₆₎ - Surface Adherence Factor for age group 6-16	0.1702	mg/cm ⁵	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₆₋₃₁₎ - Surface Adherence Factor for age group 16-31	0.0826	mg/cm ²	Ibid SAF ₍₁₋₂₎ Note.

Field 2 Surface Soil (0 - 0.5 feet below turf)

Park Visitor - Soil: Table PS-6
Chemical-Specific Data

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	CSF (mg/kg-day) ⁻¹	RAF _{c-ing}	RAF _{c-derm}	Chronic RfD mg/kg-day	Subchronic RfD mg/kg-day	Chronic RAF _{nc-ing}	Chronic RAF _{nc-derm}	Subchronic RAF _{nc-ing}	Subchronic RAF _{nc-derm}	Notes
BARIUM				2.0E-01	2.0E-01	1	0.1	1	0.1	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22				3.0E-02	3.0E-01	0.3	0.1	0.3	0.1	
CHROMIUM (TOTAL)				3.0E-03	2.0E-02	1	0.1	1	0.1	
LEAD				7.5E-04	7.5E-04	0.5	0.006	0.5	0.006	
ZINC				3.0E-01	3.0E-01	1	0.1	1	0.1	

Field 2 Subsurface Soil (0.5 - 5 feet below turf)

Park Visitor - Soil: Table PS-1

Exposure Point Concentration (EPC)

Based on Visitor Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

Shortforms Version June 2024

Method 3 Lookup Tables Version v0624

ELCR (all chemicals) = 3.77E-06

Chronic HI (all chemicals) = 1.98

Subchronic HI (all chemicals) = 6.27

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Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	ELCR _{ingestion}	ELCR _{dermal}	ELCR _{total}	Chronic			Subchronic			Notes
					HQ _{ing}	HQ _{derm}	HQ _{total}	HQ _{ing}	HQ _{derm}	HQ _{total}	
ANTIMONY	17.2				5.6E-02	4.7E-02	1.0E-01	1.9E-01	1.2E-01	3.1E-01	
ARSENIC	13.1	2.0E-06	1.0E-06	3.0E-06	2.8E-02	1.4E-02	4.3E-02	9.8E-02	3.7E-02	1.4E-01	
BARIUM	293				1.9E-03	1.6E-03	3.5E-03	6.6E-03	4.2E-03	1.1E-02	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22	12.3				1.6E-04	4.4E-04	6.0E-04	5.5E-05	1.2E-04	1.7E-04	
PETROLEUM HYDROCARBONS: ALIPHATICS - C19 to C36	16.4				1.1E-05	1.8E-05	2.8E-05	1.2E-05	1.6E-05	2.8E-05	
CHROMIUM (TOTAL)	40.9				1.8E-02	1.5E-02	3.3E-02	9.2E-03	5.8E-03	1.5E-02	Cr(VI) limit is 200 mg/kg due to contact dermatitis.
LEAD	1,710				1.5E+00	1.5E-01	1.6E+00	5.1E+00	3.9E-01	5.5E+00	Lead IH HQ limit is 1, not 10.
NICKEL	54.9				3.6E-03	6.0E-03	9.5E-03	1.2E-02	1.6E-02	2.8E-02	
POLYCHLORINATED BIPHENYLS (PCBs)	1.01	4.0E-07	3.6E-07	7.6E-07	6.5E-02	5.5E-02	1.2E-01	9.0E-02	5.7E-02	1.5E-01	
TETRACHLOROETHYLENE	0.000777	3.1E-12	8.2E-13	3.9E-12	1.7E-07	4.2E-08	2.1E-07	5.8E-07	1.1E-07	6.9E-07	
ZINC	4,781				2.1E-02	1.7E-02	3.8E-02	7.1E-02	4.5E-02	1.2E-01	

Park Visitor - Soil: Table PS-2

Equations to Calculate Cancer Risk for Visitor (Age 1-31 Years)

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing(1-31)} * CSF$$

$$LADD_{ing(1-31)} = LADD_{ing(1-8)} + LADD_{ing(8-15)} + LADD_{ing(15-31)}$$

$$LADD_{ingx} = \frac{[OHM]_{soil} * IR_x * RAF_{c-ing} * EF_{ing} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm(1-31)} = LADD_{derm(1-8)} + LADD_{derm(8-15)} + LADD_{derm(15-31)}$$

$$LADD_{dermx} = \frac{[OHM]_{soil} * SA_x * RAF_{c-derm} * SAF_x * EF_{derm} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Method 3 Lookup Tables Version v0624

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) ⁻¹
LADD	age/OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR ₍₁₋₈₎	100	mg/day
IR ₍₈₋₁₅₎	50	mg/day
IR ₍₁₅₋₃₁₎	50	mg/day
RAF _{c-ing}	OHM specific	dimensionless
RAF _{c-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP ₍₁₋₈₎	7	years
EP ₍₈₋₁₅₎	7	years
EP ₍₁₅₋₃₁₎	16	years
C	0.000001	kg/mg
BW ₍₁₋₈₎	19.0	kg
BW ₍₈₋₁₅₎	46.1	kg
BW ₍₁₅₋₃₁₎	64.5	kg
AP _{lifetime} = AP _{cancer}	70	years
SA ₍₁₋₈₎	2244	cm ² /day
SA ₍₈₋₁₅₎	4051	cm ² /day
SA ₍₁₅₋₃₁₎	5322	cm ² /day
SAF ₍₁₋₈₎	0.3740	mg/cm ²
SAF ₍₈₋₁₅₎	0.1365	mg/cm ²
SAF ₍₁₅₋₃₁₎	0.0829	mg/cm ²

Park Visitor - Soil: Table PS-3

Equations to Calculate Chronic Noncancer Risk for Visitor (Age 1-8 Years)

Method 3 Lookup Tables Version v0624

Chronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Chronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP	7	years
C	0.000001	kg/mg
BW	19.0	kg
AP	7	year
SA	2244	cm ² /day

Park Visitor - Soil: Table PS-4

Equations to Calculate Subchronic Noncancer Risk for Visitor (Age 1-2 Years)

Method 3 Lookup Tables Version v0624

Subchronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Subchronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.429	event/day
ED	1	day/event
EP = EP _{sc (1-2)}	0.575342466	years
C	0.000001	kg/mg
BW	9.6	kg
AP = AP _{subchronic}	0.575	year
SA	1708	cm ² /day
SAF	0.3740	mg/cm ²

Park Visitor - Soil: Table PS-5

Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) ⁻¹	See Tables PS-6 and PS-6c
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
RfD - Reference Dose	chemical specific	mg/kg-day	See Table PS-6
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR ₍₁₋₂₎ - Soil Ingestion Rate for age group 1-2	100	mg/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-3.
IR ₍₁₋₈₎ - Soil Ingestion Rate for age group 1-8	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₈₋₁₅₎ - Soil Ingestion Rate for age group 8-15	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₅₋₃₁₎ - Soil Ingestion Rate for age group 15-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₂₋₆₎ - Soil Ingestion Rate for age group 2-6	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₆₋₁₆₎ - Soil Ingestion Rate for age group 6-16	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₆₋₃₁₎ - Soil Ingestion Rate for age group 16-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
RAF _c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant CSF. See Table PS-6
RAF _{NC} - Relative Absorption Factor for non-Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant RfD. See Table PS-6
EF _{subchronic} - Exposure Frequency for subchronic exposure	0.429	event/day	3 events/week
EF _{chronic} and EF _{cancer} - Exposure Frequency for chronic and Exposure Frequency for lifetime cancer	0.247	event/day	3 events/week, 30 weeks/year
ED - Exposure Duration	1	day/event	
EP _{sc (1-2)} - Exposure Period for age group 1-2 for Subchronic exposure	0.575	years	30 weeks
EP ₍₁₋₈₎ - Exposure Period for age group 1-8	7	years	
EP ₍₈₋₁₅₎ - Exposure Period for age group 8-15	7	years	
EP ₍₁₅₋₃₁₎ - Exposure Period for age group 15-31	16	years	
EP ₍₁₋₂₎ - Exposure Period for age group 1-2 (mutagenic effects)	1	years	
EP ₍₂₋₆₎ - Exposure Period for age group 2-6 (mutagenic effects)	4	years	
EP ₍₆₋₁₆₎ - Exposure Period for age group 6-16 (mutagenic effects)	10	years	
EP ₍₁₆₋₃₁₎ - Exposure Period for age group 16-31 (mutagenic effects)	15	years	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
BW ₍₁₋₂₎ - Body Weight for age group 1-2; (subchronic, and mutagenic)	9.6	kg	50th percentile female body weight from US Department of Health and Human Services (USDHHS), adjusted according to the MassDEP risk assessment methodology. (See MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download .) Data source: USDHHS: Margaret A. McDowell, M.A, et al., "Anthropometric reference data for children and adults: United States, 2003-2006," National Health Statistics Reports, Number 10, October 22, 2008, Table 1, p 5. (https://www.cdc.gov/nchs/data/nhsr/nhsr010.pdf).
BW ₍₁₋₈₎ - Body Weight for age group 1-8	19.0	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₈₋₁₅₎ - Body Weight for age group 8-15	46.1	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₅₋₃₁₎ - Body Weight for age group 15-31	64.5	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₂₋₆₎ - Body Weight for age group 2-6	17.6	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₆₋₁₆₎ - Body Weight for age group 6-16	43.2	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₆₋₃₁₎ - Body Weight for age group 16-31	65.0	kg	Ibid BW ₍₁₋₂₎ Note.
AP _{subchronic} - Averaging Period for subchronic noncancer	0.575	years	30 weeks
AP _{chronic} - Averaging Period for chronic noncancer	7	years	
AP _{C (1-2)} - Averaging Period for cancer for the age group 1-2 for vinyl chloride mutagenic effects	1	years	
AP _{cancer} - Averaging Period for cancer/lifetime	70	years	
ADAF ₍₁₋₂₎ - Age Defined Adjustment Factor for mutagenic effects for age group 1-2	10	dimensionless	
ADAF ₍₂₋₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 2-6	3	dimensionless	
ADAF ₍₆₋₁₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 6-16	3	dimensionless	
ADAF ₍₁₆₋₃₁₎ - Age Defined Adjustment Factor for mutagenic effects for age group 16-31	1	dimensionless	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
SA ₍₁₋₂₎ - Surface Area for age group 1-2	1708	cm ² /day	SSA - 50th percentile female body surface area from EPA EFH 2011, adjusted by MassDEP risk characterization methodology. (See MassDEP MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download..) Sources of data: (1) EPA Exposure Factors Handbook, 2011 Edition (EPA EFH 2011), Chapter 7, "Table 7-11. Mean and Percentile Skin Surface Area (m2) Derived From U.S. EPA Analysis of NHANES 1999–2006 for Children <21 Years and NHANES 2005–2006 for Adults >21 Years, Females", p 7-43. EPA/600/R-090/052F, September 2011. (https://rais.ornl.gov/documents/EFH_2011.pdf); and (2) EPA Exposure Factors Handbook (1997, Final Report), Table 6-7 (child), and Table 6-3 (age 18+) (https://cfpub.epa.gov/ncea/risk/recorddisplay.cfm?deid=12464). (50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females.)
SA ₍₁₋₈₎ - Surface Area for age group 1-8	2244	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₈₋₁₅₎ - Surface Area for age group 8-15	4051	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₅₋₃₁₎ - Surface Area for age group 15-31	5322	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₂₋₆₎ - Surface Area for age group 2-6	2113	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₆₋₁₆₎ - Surface Area for age group 6-16	3875	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₆₋₃₁₎ - Surface Area for age group 16-31	5354	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SAF ₍₁₋₂₎ - Surface Adherence Factor for age group 1-2	0.3717	mg _{soil} / cm ²	SAF developed for Short Forms according to procedures outlined in MassDEP MCP Risk Characterization Guidance for Disposal Sites, 2024. See SSA tab in Method 3 Lookup Tables Version v0624.xlsx.
SAF ₍₁₋₈₎ - Surface Adherence Factor for age group 1-8	0.3740	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₈₋₁₅₎ - Surface Adherence Factor for age group 8-15	0.1365	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₅₋₃₁₎ - Surface Adherence Factor for age group 15-31	0.0829	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₂₋₆₎ - Surface Adherence Factor for age group 2-6	0.3747	mg/cm ⁴	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₆₋₁₆₎ - Surface Adherence Factor for age group 6-16	0.1702	mg/cm ⁵	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₆₋₃₁₎ - Surface Adherence Factor for age group 16-31	0.0826	mg/cm ²	Ibid SAF ₍₁₋₂₎ Note.

Field 2 Subsurface Soil (0.5 - 5 feet below turf)

Park Visitor - Soil: Table PS-6
Chemical-Specific Data

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	CSF (mg/kg-day) ⁻¹	RAF _{c-ing}	RAF _{c-derm}	Chronic RfD mg/kg-day	Subchronic RfD mg/kg-day	Chronic RAF _{nc-ing}	Chronic RAF _{nc-derm}	Subchronic RAF _{nc-ing}	Subchronic RAF _{nc-derm}	Notes
ANTIMONY				4.0E-04	4.0E-04	1	0.1	1	0.1	
ARSENIC	1.5E+00	0.5	0.03	3.0E-04	3.0E-04	0.5	0.03	0.5	0.03	
BARIUM				2.0E-01	2.0E-01	1	0.1	1	0.1	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22				3.0E-02	3.0E-01	0.3	0.1	0.3	0.1	
PETROLEUM HYDROCARBONS: ALIPHATICS - C19 to C36				2.0E+00	6.0E+00	1	0.2	1	0.2	
CHROMIUM (TOTAL)				3.0E-03	2.0E-02	1	0.1	1	0.1	
LEAD				7.5E-04	7.5E-04	0.5	0.006	0.5	0.006	
NICKEL				2.0E-02	2.0E-02	1	0.2	1	0.2	
POLYCHLORINATED BIPHENYLS (PCBs)	2.0E+00	1	0.1	2.0E-05	5.0E-05	1	0.1	1	0.1	
TETRACHLOROETHYLENE	2.0E-02	1	0.03	6.0E-03	6.0E-03	1	0.03	1	0.03	
ZINC				3.0E-01	3.0E-01	1	0.1	1	0.1	

Field 3 Surface Soil (0 - 0.5 feet below turf)

Park Visitor - Soil: Table PS-1

Exposure Point Concentration (EPC)

Based on Visitor Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

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ELCR (all chemicals) = NA

Chronic HI (all chemicals) = 0.04

Subchronic HI (all chemicals) = 0.10

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Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	ELCR _{ingestion}	ELCR _{dermal}	ELCR _{total}	Chronic			Subchronic			Notes
					HQ _{ing}	HQ _{derm}	HQ _{total}	HQ _{ing}	HQ _{derm}	HQ _{total}	
BARIUM	41.8				2.7E-04	2.3E-04	5.0E-04	9.4E-04	5.9E-04	1.5E-03	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22	8.76				1.1E-04	3.2E-04	4.3E-04	3.9E-05	8.3E-05	1.2E-04	
CHROMIUM (TOTAL)	20.6				8.9E-03	7.5E-03	1.6E-02	4.6E-03	2.9E-03	7.5E-03	Cr(VI) limit is 200 mg/kg due to contact dermatitis.
LEAD	25.5				2.2E-02	2.2E-03	2.4E-02	7.6E-02	5.8E-03	8.2E-02	Lead IH HQ limit is 1, not 10.
NICKEL	9.76				6.3E-04	1.1E-03	1.7E-03	2.2E-03	2.8E-03	5.0E-03	

Park Visitor - Soil: Table PS-2

Equations to Calculate Cancer Risk for Visitor (Age 1-31 Years)

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing(1-31)} * CSF$$

$$LADD_{ing(1-31)} = LADD_{ing(1-8)} + LADD_{ing(8-15)} + LADD_{ing(15-31)}$$

$$LADD_{ingx} = \frac{[OHM]_{soil} * IR_x * RAF_{c-ing} * EF_{ing} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm(1-31)} = LADD_{derm(1-8)} + LADD_{derm(8-15)} + LADD_{derm(15-31)}$$

$$LADD_{dermx} = \frac{[OHM]_{soil} * SA_x * RAF_{c-derm} * SAF_x * EF_{derm} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Method 3 Lookup Tables Version v0624

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) ⁻¹
LADD	age/OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR ₍₁₋₈₎	100	mg/day
IR ₍₈₋₁₅₎	50	mg/day
IR ₍₁₅₋₃₁₎	50	mg/day
RAF _{c-ing}	OHM specific	dimensionless
RAF _{c-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP ₍₁₋₈₎	7	years
EP ₍₈₋₁₅₎	7	years
EP ₍₁₅₋₃₁₎	16	years
C	0.000001	kg/mg
BW ₍₁₋₈₎	19.0	kg
BW ₍₈₋₁₅₎	46.1	kg
BW ₍₁₅₋₃₁₎	64.5	kg
AP _{lifetime} = AP _{cancer}	70	years
SA ₍₁₋₈₎	2244	cm ² /day
SA ₍₈₋₁₅₎	4051	cm ² /day
SA ₍₁₅₋₃₁₎	5322	cm ² /day
SAF ₍₁₋₈₎	0.3740	mg/cm ²
SAF ₍₈₋₁₅₎	0.1365	mg/cm ²
SAF ₍₁₅₋₃₁₎	0.0829	mg/cm ²

Park Visitor - Soil: Table PS-3

Equations to Calculate Chronic Noncancer Risk for Visitor (Age 1-8 Years)

Method 3 Lookup Tables Version v0624

Chronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Chronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP	7	years
C	0.000001	kg/mg
BW	19.0	kg
AP	7	year
SA	2244	cm ² /day

Park Visitor - Soil: Table PS-4

Equations to Calculate Subchronic Noncancer Risk for Visitor (Age 1-2 Years)

Method 3 Lookup Tables Version v0624

Subchronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Subchronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.429	event/day
ED	1	day/event
EP = EP _{sc (1-2)}	0.575342466	years
C	0.000001	kg/mg
BW	9.6	kg
AP = AP _{subchronic}	0.575	year
SA	1708	cm ² /day
SAF	0.3740	mg/cm ²

Park Visitor - Soil: Table PS-5

Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) ⁻¹	See Tables PS-6 and PS-6c
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
RfD - Reference Dose	chemical specific	mg/kg-day	See Table PS-6
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR ₍₁₋₂₎ - Soil Ingestion Rate for age group 1-2	100	mg/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-3.
IR ₍₁₋₈₎ - Soil Ingestion Rate for age group 1-8	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₈₋₁₅₎ - Soil Ingestion Rate for age group 8-15	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₅₋₃₁₎ - Soil Ingestion Rate for age group 15-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₂₋₆₎ - Soil Ingestion Rate for age group 2-6	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₆₋₁₆₎ - Soil Ingestion Rate for age group 6-16	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₆₋₃₁₎ - Soil Ingestion Rate for age group 16-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
RAF _c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant CSF. See Table PS-6
RAF _{NC} - Relative Absorption Factor for non-Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant RfD. See Table PS-6
EF _{subchronic} - Exposure Frequency for subchronic exposure	0.429	event/day	3 events/week
EF _{chronic} and EF _{cancer} - Exposure Frequency for chronic and Exposure Frequency for lifetime cancer	0.247	event/day	3 events/week, 30 weeks/year
ED - Exposure Duration	1	day/event	
EP _{sc (1-2)} - Exposure Period for age group 1-2 for Subchronic exposure	0.575	years	30 weeks
EP ₍₁₋₈₎ - Exposure Period for age group 1-8	7	years	
EP ₍₈₋₁₅₎ - Exposure Period for age group 8-15	7	years	
EP ₍₁₅₋₃₁₎ - Exposure Period for age group 15-31	16	years	
EP ₍₁₋₂₎ - Exposure Period for age group 1-2 (mutagenic effects)	1	years	
EP ₍₂₋₆₎ - Exposure Period for age group 2-6 (mutagenic effects)	4	years	
EP ₍₆₋₁₆₎ - Exposure Period for age group 6-16 (mutagenic effects)	10	years	
EP ₍₁₆₋₃₁₎ - Exposure Period for age group 16-31 (mutagenic effects)	15	years	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
BW ₍₁₋₂₎ - Body Weight for age group 1-2; (subchronic, and mutagenic)	9.6	kg	50th percentile female body weight from US Department of Health and Human Services (USDHHS), adjusted according to the MassDEP risk assessment methodology. (See MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download .) Data source: USDHHS: Margaret A. McDowell, M.A, et al., "Anthropometric reference data for children and adults: United States, 2003-2006," National Health Statistics Reports, Number 10, October 22, 2008, Table 1, p 5. (https://www.cdc.gov/nchs/data/nhsr/nhsr010.pdf).
BW ₍₁₋₈₎ - Body Weight for age group 1-8	19.0	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₈₋₁₅₎ - Body Weight for age group 8-15	46.1	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₅₋₃₁₎ - Body Weight for age group 15-31	64.5	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₂₋₆₎ - Body Weight for age group 2-6	17.6	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₆₋₁₆₎ - Body Weight for age group 6-16	43.2	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₆₋₃₁₎ - Body Weight for age group 16-31	65.0	kg	Ibid BW ₍₁₋₂₎ Note.
AP _{subchronic} - Averaging Period for subchronic noncancer	0.575	years	30 weeks
AP _{chronic} - Averaging Period for chronic noncancer	7	years	
AP _{C (1-2)} - Averaging Period for cancer for the age group 1-2 for vinyl chloride mutagenic effects	1	years	
AP _{cancer} - Averaging Period for cancer/lifetime	70	years	
ADAF ₍₁₋₂₎ - Age Defined Adjustment Factor for mutagenic effects for age group 1-2	10	dimensionless	
ADAF ₍₂₋₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 2-6	3	dimensionless	
ADAF ₍₆₋₁₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 6-16	3	dimensionless	
ADAF ₍₁₆₋₃₁₎ - Age Defined Adjustment Factor for mutagenic effects for age group 16-31	1	dimensionless	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
SA ₍₁₋₂₎ - Surface Area for age group 1-2	1708	cm ² /day	SSA - 50th percentile female body surface area from EPA EFH 2011, adjusted by MassDEP risk characterization methodology. (See MassDEP MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download..) Sources of data: (1) EPA Exposure Factors Handbook, 2011 Edition (EPA EFH 2011), Chapter 7, "Table 7-11. Mean and Percentile Skin Surface Area (m ²) Derived From U.S. EPA Analysis of NHANES 1999–2006 for Children <21 Years and NHANES 2005–2006 for Adults >21 Years, Females", p 7-43. EPA/600/R-090/052F, September 2011. (https://rais.ornl.gov/documents/EFH_2011.pdf); and (2) EPA Exposure Factors Handbook (1997, Final Report), Table 6-7 (child), and Table 6-3 (age 18+) (https://cfpub.epa.gov/ncea/risk/recorddisplay.cfm?deid=12464). (50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females.)
SA ₍₁₋₈₎ - Surface Area for age group 1-8	2244	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₈₋₁₅₎ - Surface Area for age group 8-15	4051	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₅₋₃₁₎ - Surface Area for age group 15-31	5322	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₂₋₆₎ - Surface Area for age group 2-6	2113	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₆₋₁₆₎ - Surface Area for age group 6-16	3875	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₆₋₃₁₎ - Surface Area for age group 16-31	5354	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SAF ₍₁₋₂₎ - Surface Adherence Factor for age group 1-2	0.3717	mg _{soil} / cm ²	SAF developed for Short Forms according to procedures outlined in MassDEP MCP Risk Characterization Guidance for Disposal Sites, 2024. See SSA tab in Method 3 Lookup Tables Version v0624.xlsx.
SAF ₍₁₋₈₎ - Surface Adherence Factor for age group 1-8	0.3740	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₈₋₁₅₎ - Surface Adherence Factor for age group 8-15	0.1365	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₅₋₃₁₎ - Surface Adherence Factor for age group 15-31	0.0829	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₂₋₆₎ - Surface Adherence Factor for age group 2-6	0.3747	mg/cm ⁴	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₆₋₁₆₎ - Surface Adherence Factor for age group 6-16	0.1702	mg/cm ⁵	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₆₋₃₁₎ - Surface Adherence Factor for age group 16-31	0.0826	mg/cm ²	Ibid SAF ₍₁₋₂₎ Note.

Field 3 Surface Soil (0 - 0.5 feet below turf)

Park Visitor - Soil: Table PS-6
Chemical-Specific Data

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	CSF (mg/kg-day) ⁻¹	RAF _{c-ing}	RAF _{c-derm}	Chronic RfD mg/kg-day	Subchronic RfD mg/kg-day	Chronic RAF _{nc-ing}	Chronic RAF _{nc-derm}	Subchronic RAF _{nc-ing}	Subchronic RAF _{nc-derm}	Notes
BARIUM				2.0E-01	2.0E-01	1	0.1	1	0.1	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22				3.0E-02	3.0E-01	0.3	0.1	0.3	0.1	
CHROMIUM (TOTAL)				3.0E-03	2.0E-02	1	0.1	1	0.1	
LEAD				7.5E-04	7.5E-04	0.5	0.006	0.5	0.006	
NICKEL				2.0E-02	2.0E-02	1	0.2	1	0.2	

Field 3 Subsurface Soil (0.5 - 5 feet below turf)

Park Visitor - Soil: Table PS-1**Exposure Point Concentration (EPC)**

Based on Visitor Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

Shortforms Version June 2024

Method 3 Lookup Tables Version v0624

ELCR (all chemicals) = 3.41E-06

Chronic HI (all chemicals) = 0.83

Subchronic HI (all chemicals) = 2.77

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	ELCR _{ingestion}	ELCR _{dermal}	ELCR _{total}	Chronic			Subchronic			Notes
					HQ _{ing}	HQ _{derm}	HQ _{total}	HQ _{ing}	HQ _{derm}	HQ _{total}	
ANTIMONY	7.76				2.5E-02	2.1E-02	4.6E-02	8.7E-02	5.5E-02	1.4E-01	
ARSENIC	14.9	2.2E-06	1.2E-06	3.4E-06	3.2E-02	1.6E-02	4.8E-02	1.1E-01	4.2E-02	1.5E-01	
BARIUM	186				1.2E-03	1.0E-03	2.2E-03	4.2E-03	2.6E-03	6.8E-03	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22	17.7				2.3E-04	6.4E-04	8.7E-04	7.9E-05	1.7E-04	2.5E-04	
PETROLEUM HYDROCARBONS: ALIPHATICS - C19 to C36	13.6				8.8E-06	1.5E-05	2.4E-05	1.0E-05	1.3E-05	2.3E-05	
CADMIUM	1.94				2.5E-03	4.2E-04	2.9E-03	8.7E-03	1.1E-03	9.8E-03	
LEAD	755				6.5E-01	6.6E-02	7.2E-01	2.3E+00	1.7E-01	2.4E+00	Lead IH HQ limit is 1, not 10.
MERCURY	0.528				1.1E-03	1.9E-03	3.1E-03	3.9E-03	5.0E-03	9.0E-03	
NICKEL	14.2				9.2E-04	1.5E-03	2.5E-03	3.2E-03	4.0E-03	7.2E-03	
TETRACHLOROETHYLENE	0.00135	5.4E-12	1.4E-12	6.8E-12	2.9E-07	7.3E-08	3.7E-07	1.0E-06	1.9E-07	1.2E-06	
ZINC	547				2.4E-03	2.0E-03	4.3E-03	8.2E-03	5.2E-03	1.3E-02	

Park Visitor - Soil: Table PS-2

Equations to Calculate Cancer Risk for Visitor (Age 1-31 Years)

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing(1-31)} * CSF$$

$$LADD_{ing(1-31)} = LADD_{ing(1-8)} + LADD_{ing(8-15)} + LADD_{ing(15-31)}$$

$$LADD_{ingx} = \frac{[OHM]_{soil} * IR_x * RAF_{c-ing} * EF_{ing} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm(1-31)} = LADD_{derm(1-8)} + LADD_{derm(8-15)} + LADD_{derm(15-31)}$$

$$LADD_{dermx} = \frac{[OHM]_{soil} * SA_x * RAF_{c-derm} * SAF_x * EF_{derm} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Method 3 Lookup Tables Version v0624

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) ⁻¹
LADD	age/OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR ₍₁₋₈₎	100	mg/day
IR ₍₈₋₁₅₎	50	mg/day
IR ₍₁₅₋₃₁₎	50	mg/day
RAF _{c-ing}	OHM specific	dimensionless
RAF _{c-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP ₍₁₋₈₎	7	years
EP ₍₈₋₁₅₎	7	years
EP ₍₁₅₋₃₁₎	16	years
C	0.000001	kg/mg
BW ₍₁₋₈₎	19.0	kg
BW ₍₈₋₁₅₎	46.1	kg
BW ₍₁₅₋₃₁₎	64.5	kg
AP _{lifetime} = AP _{cancer}	70	years
SA ₍₁₋₈₎	2244	cm ² /day
SA ₍₈₋₁₅₎	4051	cm ² /day
SA ₍₁₅₋₃₁₎	5322	cm ² /day
SAF ₍₁₋₈₎	0.3740	mg/cm ²
SAF ₍₈₋₁₅₎	0.1365	mg/cm ²
SAF ₍₁₅₋₃₁₎	0.0829	mg/cm ²

Park Visitor - Soil: Table PS-3

Equations to Calculate Chronic Noncancer Risk for Visitor (Age 1-8 Years)

Method 3 Lookup Tables Version v0624

Chronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Chronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.247	event/day
ED	1	day/event
EP	7	years
C	0.000001	kg/mg
BW	19.0	kg
AP	7	year
SA	2244	cm ² /day

Park Visitor - Soil: Table PS-4

Equations to Calculate Subchronic Noncancer Risk for Visitor (Age 1-2 Years)

Method 3 Lookup Tables Version v0624

Subchronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Subchronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing} or EF _{derm} = EF _{cancer}	0.429	event/day
ED	1	day/event
EP = EP _{sc (1-2)}	0.575342466	years
C	0.000001	kg/mg
BW	9.6	kg
AP = AP _{subchronic}	0.575	year
SA	1708	cm ² /day
SAF	0.3740	mg/cm ²

Park Visitor - Soil: Table PS-5

Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) ⁻¹	See Tables PS-6 and PS-6c
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal)
RfD - Reference Dose	chemical specific	mg/kg-day	See Table PS-6
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR ₍₁₋₂₎ - Soil Ingestion Rate for age group 1-2	100	mg/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-3.
IR ₍₁₋₈₎ - Soil Ingestion Rate for age group 1-8	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₈₋₁₅₎ - Soil Ingestion Rate for age group 8-15	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₅₋₃₁₎ - Soil Ingestion Rate for age group 15-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₂₋₆₎ - Soil Ingestion Rate for age group 2-6	100	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₆₋₁₆₎ - Soil Ingestion Rate for age group 6-16	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
IR ₍₁₆₋₃₁₎ - Soil Ingestion Rate for age group 16-31	50	mg/day	Ibid IR ₍₁₋₂₎ Note.
RAF _c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant CSF. See Table PS-6
RAF _{NC} - Relative Absorption Factor for non-Cancer Effects	chemical specific	dimensionless	Adjusts estimated dose to conform to the relevant RfD. See Table PS-6
EF _{subchronic} - Exposure Frequency for subchronic exposure	0.429	event/day	3 events/week
EF _{chronic} and EF _{cancer} - Exposure Frequency for chronic and Exposure Frequency for lifetime cancer	0.247	event/day	3 events/week, 30 weeks/year
ED - Exposure Duration	1	day/event	
EP _{sc (1-2)} - Exposure Period for age group 1-2 for Subchronic exposure	0.575	years	30 weeks
EP ₍₁₋₈₎ - Exposure Period for age group 1-8	7	years	
EP ₍₈₋₁₅₎ - Exposure Period for age group 8-15	7	years	
EP ₍₁₅₋₃₁₎ - Exposure Period for age group 15-31	16	years	
EP ₍₁₋₂₎ - Exposure Period for age group 1-2 (mutagenic effects)	1	years	
EP ₍₂₋₆₎ - Exposure Period for age group 2-6 (mutagenic effects)	4	years	
EP ₍₆₋₁₆₎ - Exposure Period for age group 6-16 (mutagenic effects)	10	years	
EP ₍₁₆₋₃₁₎ - Exposure Period for age group 16-31 (mutagenic effects)	15	years	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
BW ₍₁₋₂₎ - Body Weight for age group 1-2; (subchronic, and mutagenic)	9.6	kg	50th percentile female body weight from US Department of Health and Human Services (USDHHS), adjusted according to the MassDEP risk assessment methodology. (See MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download .) Data source: USDHHS: Margaret A. McDowell, M.A, et al., "Anthropometric reference data for children and adults: United States, 2003-2006," National Health Statistics Reports, Number 10, October 22, 2008, Table 1, p 5. (https://www.cdc.gov/nchs/data/nhsr/nhsr010.pdf).
BW ₍₁₋₈₎ - Body Weight for age group 1-8	19.0	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₈₋₁₅₎ - Body Weight for age group 8-15	46.1	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₅₋₃₁₎ - Body Weight for age group 15-31	64.5	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₂₋₆₎ - Body Weight for age group 2-6	17.6	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₆₋₁₆₎ - Body Weight for age group 6-16	43.2	kg	Ibid BW ₍₁₋₂₎ Note.
BW ₍₁₆₋₃₁₎ - Body Weight for age group 16-31	65.0	kg	Ibid BW ₍₁₋₂₎ Note.
AP _{subchronic} - Averaging Period for subchronic noncancer	0.575	years	30 weeks
AP _{chronic} - Averaging Period for chronic noncancer	7	years	
AP _{C (1-2)} - Averaging Period for cancer for the age group 1-2 for vinyl chloride mutagenic effects	1	years	
AP _{cancer} - Averaging Period for cancer/lifetime	70	years	
ADAF ₍₁₋₂₎ - Age Defined Adjustment Factor for mutagenic effects for age group 1-2	10	dimensionless	
ADAF ₍₂₋₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 2-6	3	dimensionless	
ADAF ₍₆₋₁₆₎ - Age Defined Adjustment Factor for mutagenic effects for age group 6-16	3	dimensionless	
ADAF ₍₁₆₋₃₁₎ - Age Defined Adjustment Factor for mutagenic effects for age group 16-31	1	dimensionless	

Park Visitor - Soil: Table PS-5 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
SA ₍₁₋₂₎ - Surface Area for age group 1-2	1708	cm ² /day	SSA - 50th percentile female body surface area from EPA EFH 2011, adjusted by MassDEP risk characterization methodology. (See MassDEP MCP Method 1 Forms and documentation, https://www.mass.gov/doc/summary-of-proposed-mcp-method-1-standards-revisions/download..) Sources of data: (1) EPA Exposure Factors Handbook, 2011 Edition (EPA EFH 2011), Chapter 7, "Table 7-11. Mean and Percentile Skin Surface Area (m ²) Derived From U.S. EPA Analysis of NHANES 1999–2006 for Children <21 Years and NHANES 2005–2006 for Adults >21 Years, Females", p 7-43. EPA/600/R-090/052F, September 2011. (https://rais.ornl.gov/documents/EFH_2011.pdf); and (2) EPA Exposure Factors Handbook (1997, Final Report), Table 6-7 (child), and Table 6-3 (age 18+) (https://cfpub.epa.gov/ncea/risk/recorddisplay.cfm?deid=12464). (50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females.)
SA ₍₁₋₈₎ - Surface Area for age group 1-8	2244	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₈₋₁₅₎ - Surface Area for age group 8-15	4051	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₅₋₃₁₎ - Surface Area for age group 15-31	5322	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₂₋₆₎ - Surface Area for age group 2-6	2113	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₆₋₁₆₎ - Surface Area for age group 6-16	3875	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SA ₍₁₆₋₃₁₎ - Surface Area for age group 16-31	5354	cm ² /day	Ibid SA ₍₁₋₂₎ Note.
SAF ₍₁₋₂₎ - Surface Adherence Factor for age group 1-2	0.3717	mg _{soil} / cm ²	SAF developed for Short Forms according to procedures outlined in MassDEP MCP Risk Characterization Guidance for Disposal Sites, 2024. See SSA tab in Method 3 Lookup Tables Version v0624.xlsx.
SAF ₍₁₋₈₎ - Surface Adherence Factor for age group 1-8	0.3740	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₈₋₁₅₎ - Surface Adherence Factor for age group 8-15	0.1365	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₅₋₃₁₎ - Surface Adherence Factor for age group 15-31	0.0829	mg _{soil} / cm ²	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₂₋₆₎ - Surface Adherence Factor for age group 2-6	0.3747	mg/cm ⁴	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₆₋₁₆₎ - Surface Adherence Factor for age group 6-16	0.1702	mg/cm ⁵	Ibid SAF ₍₁₋₂₎ Note.
SAF ₍₁₆₋₃₁₎ - Surface Adherence Factor for age group 16-31	0.0826	mg/cm ²	Ibid SAF ₍₁₋₂₎ Note.

Field 3 Subsurface Soil (0.5 - 5 feet below turf)

Park Visitor - Soil: Table PS-6
Chemical-Specific Data

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	CSF (mg/kg-day) ⁻¹	RAF _{c-ing}	RAF _{c-derm}	Chronic RfD mg/kg-day	Subchronic RfD mg/kg-day	Chronic RAF _{nc-ing}	Chronic RAF _{nc-derm}	Subchronic RAF _{nc-ing}	Subchronic RAF _{nc-derm}	Notes
ANTIMONY				4.0E-04	4.0E-04	1	0.1	1	0.1	
ARSENIC	1.5E+00	0.5	0.03	3.0E-04	3.0E-04	0.5	0.03	0.5	0.03	
BARIUM				2.0E-01	2.0E-01	1	0.1	1	0.1	
PETROLEUM HYDROCARBONS: AROMATICS - C11 to C22				3.0E-02	3.0E-01	0.3	0.1	0.3	0.1	
PETROLEUM HYDROCARBONS: ALIPHATICS - C19 to C36				2.0E+00	6.0E+00	1	0.2	1	0.2	
CADMIUM				5.0E-04	5.0E-04	0.5	0.01	0.5	0.01	
LEAD				7.5E-04	7.5E-04	0.5	0.006	0.5	0.006	
MERCURY				3.0E-04	3.0E-04	0.5	0.1	0.5	0.1	
NICKEL				2.0E-02	2.0E-02	1	0.2	1	0.2	
TETRACHLOROETHYLENE	2.0E-02	1	0.03	6.0E-03	6.0E-03	1	0.03	1	0.03	
ZINC				3.0E-01	3.0E-01	1	0.1	1	0.1	

Appendix G

Geophysical Study

**GEOPHYSICAL SURVEY
LANDFILL DELINEATION
TROTTER FIELD
525 GIFFORD STREET
FALMOUTH, MASSACHUSETTS**

Prepared for:

Arcadis | Arcadis U.S., Inc.
One Federal Street, Suite 3800
Boston, Massachusetts 02110

Prepared by:

Hager-Richter Geoscience, Inc.
26 Kendall Pond Road
Derry, New Hampshire 03038

File 25VD02
February, 2025

February 28, 2025
File 25VD02

James A. Luker Jr. CPG PG LSP
Principal Geologist, Certified Project Manager
Arcadis | Arcadis U.S., Inc.
One Federal Street, Suite 3800
Boston, Massachusetts 02110

Main: 781 267 7425
Cell: 508 284 3017
Email: James.Luker@arcadis.com

RE: Geophysical Survey
Landfill Delineation
Trotting Field
525 Gifford Street
Falmouth, Massachusetts

Dear Mr. Luker:

In this report, we summarize the results of a geophysical survey performed by Hager-Richter Geoscience, Inc. (HRGS) at the above referenced site located in Falmouth, Massachusetts for Arcadis U.S., Inc. (Arcadis). The scope of work and the area of interest were specified by Arcadis.

INTRODUCTION

The site is Trotting Field Park, located at 525 Gifford Street Falmouth, Massachusetts. Figure 1 shows the general location of the site. Arcadis requested a geophysical survey to determine the limits and, if possible, the depth of materials in a former landfill onsite that was active prior to about 1957. The former landfill is expected to be below portions of three ballfields that were constructed between 1977 and 2010 and a parking area located west of the ballfields. Arcadis conducted a boring program across the ballfields and detected waste materials at a depth of about 1 foot and extending downward to as much as 15 feet below the surface.

The area of interest for the survey included the three ballfields, the parking areas to the west of the ballfields, an access road along the north side of the site, and open areas along the east side of the ballfields. The ballfields are separated by chain-link fencing, and include dugouts, bleachers, and scoreboards. A steep slope dips down toward the ballfields from the parking lot to the west.

OBJECTIVES

Arcadis requires a geophysical survey to determine the limits and, if possible, the depth of materials in the former landfill and locations of possible large buried metallic debris and objects.

THE SURVEY

Steven Grant, P.G., and Amber Carlson, G.I.T. of HRGS conducted the geophysical survey on February 20 and 21, 2025. The project was coordinated with Mr. James A. Luker Jr. of Arcadis, who specified the limits of the area of interest. Mr. Casey Shultis, also of Arcadis, was on site for the duration of the survey and assisted with survey logistics. Photograph 1 shows typical conditions of the site at the time of the survey. Data analysis and interpretation were completed at the HRGS offices. Original data and field notes will be retained in the HRGS files for a minimum of three (3) years.



Photograph 1. Typical conditions at the site. View to the northeast of Field 1(left), Field 2 (right foreground), and Field 3 (center and right background).

The geophysical survey was conducted using two (2) complementary methods: frequency domain electromagnetic induction (EM31) and time domain electromagnetic induction metal detection (EM61). A third method, ground penetrating radar (GPR), was also added to determine if depths of material could be determined. Juniper Systems, Inc., Geode GPS antennas were coupled to the geophysical instruments to provide real-time georeferenced locational information to the geophysical data. The

EM31 were processed and examined in the field to determine the most likely locations of buried waste materials in order to prioritize search areas for the EM61.

The EM31 data were acquired at approximately 1-foot intervals along lines spaced approximately 20 feet apart across the accessible portions of the AOI. The EM31 data were acquired in the vertical dipole mode, which has a nominal depth of exploration of approximately 18 feet, with the instrument's boom parallel to the survey lines. The EM31 method can detect areas of buried metal and characterize changes in soil conductivity that may relate to the limits of the waste materials in the subsurface.

The EM61 data were acquired at approximately 8-inch intervals along lines spaced approximately 5 feet apart across the accessible portions of potential waste areas determined from the EM61 survey. The EM survey detects buried metal. However, the EM method cannot provide information on the type of objects causing an EM anomaly.

GPR data were acquired along traverses with variable line spacing across the accessible portions of the AOI. The GPR method can detect both metal and nonmetal objects.

EQUIPMENT

The EM31 survey was conducted using a Geonics Model EM31-MK2 terrain conductivity meter. This unit is an induction type instrument and provides measurement of both the quadrature-phase and in-phase components of terrain conductivity without ground electrodes or contact. The quadrature-phase data, also known as apparent conductivity data, are useful for detecting the presence of anomalously conductive ground, which might be caused by the presence of objects with properties unlike those of the natural materials on site, such as fill. The in-phase component data, on the other hand, are only used to interpret the presence of metal objects. The EM31 is calibrated to read ground conductivity directly in millimhos per meter (mS/m) with a resolution of 2% of full scale and an accuracy of 1 mS/m. The nominal depth of earth sampled by the EM31 in the vertical dipole mode is about 18 feet.

The EM61 data were acquired using a Geonics EM61-MK2 time domain electromagnetic induction metal detector. The EM61-MK2 instrument was designed specifically for detecting buried metal objects such as utilities, underground storage tanks (USTs), and drums. An air-cored transmitter coil generates a pulsed primary magnetic field in the earth, thereby inducing eddy currents in nearby metal objects. The eddy current produces a secondary magnetic field that is sensed by two receiver coils, one coincident with the transmitter and one positioned 40 cm above the main coil. By measuring the secondary magnetic field after the current in the ground has dissipated but before the current in metal objects has dissipated, the instrument responds only to the secondary magnetic field produced by metal objects. Four channels of secondary response are measured in mV and are recorded on a digital data logger. The system is generally operated by pushing the coils configured as a wagon with an odometer mounted on the axle to trigger the data logger automatically at approximately 8-inch intervals.

GPR. The GPR data were acquired using a Geophysical Survey Systems, Inc. (GSSI) SIR 4000 high-performance GPR data acquisition system with a 350 MHz HyperStacking antenna with a 144 ns time window. GPR uses a high-frequency electromagnetic pulse (referred to herein as "radar signal") transmitted from a radar antenna to probe the subsurface. The transmitted radar signals are reflected from subsurface interfaces of materials with contrasting electrical properties. The system includes a

survey wheel that triggers the recording of the data at fixed intervals, thereby ensuring the accuracy of the locations of features detected along each survey line.

Data from the GPR survey were processed using RADAN 7.6 GPR processing software from GSSI. We reviewed profile images of the GPR data. Interpretation of the records is based upon the nature and intensity of the reflected signals and on the resulting patterns. GPR uses a high-frequency electromagnetic pulse (referred to herein as “radar signal”) transmitted from a radar antenna to probe the subsurface. The transmitted radar signals are reflected from subsurface interfaces of materials with contrasting electrical properties. Travel times of the radar signal can be converted to approximate depth below the surface by correlation with targets of known depths and by a curve matching routine. We monitor the acquisition of GPR data in the field and record the GPR data digitally for subsequent processing.

LIMITATIONS OF THE METHODS

HRGS MAKES NO GUARANTEE THAT ALL TARGETS WERE DETECTED IN THIS SURVEY. HRGS IS NOT RESPONSIBLE FOR DETECTING TARGETS THAT CANNOT BE DETECTED BY THE METHODS EMPLOYED OR BECAUSE OF SITE CONDITIONS. GPR SIGNAL PENETRATION MIGHT NOT BE SUFFICIENT TO DETECT ALL TARGETS.

Markings made on site. Utilities and other features detected by the geophysical methods at the time of the survey are marked in the field. Adverse weather and site conditions (rain, snow, snow and soil piles, uneven surfaces, high traffic, etc.) can hamper in-field interpretation. Markings made on wet pavement, snow, snow piles, gravel surfaces, or in active construction zones may not last. HRGS is not responsible for maintaining markings after leaving the work area.

EM31. All electromagnetic geophysical methods are affected by the presence of power lines and surface metal objects (steel sided buildings, dumpsters, vehicles, railroad tracks, reinforced concrete, etc.) Where such are present, the effects of materials in the subsurface may be masked, and firm conclusions about subsurface conditions cannot be made.

The detection of any target, whether an object or change in geological conditions, is predicated in the assumption of a marked contrast in electrical conductivity. For example, if the conductivity target saltwater wedge does not contrast sufficiently with the conductivity of the surrounding fresh water saturated soils, it might not be possible to detect the lateral extent of the wedge.

The EM31 instrument response varies with the orientation of the dipoles. In the horizontal dipole mode (coils vertical and co-planar), the instrument is more sensitive to near-surface conductive layers than it is in the vertical dipole mode (coils horizontal and co-planar).

EM61. The EM61 cannot detect non-metallic objects. The data from an EM61 survey are adversely affected by surface metal. The EM61 has a depth sensitivity limited to about 8 feet. The instrument is relatively cumbersome and works best where the transmit and receive coils can be hand pushed in a small wagon.

Detection and identification should be clearly differentiated. Detection is the recognition of the presence of a metal object, and the electromagnetic method is excellent for such purposes. Identification, on the other hand, is determination of the nature of the causative body (i.e., what is the body -- a cache of drums, UST, automobile, white goods, etc.?). Although the EM data cannot be used to identify all buried metal objects, they provide excellent guides to the identification of some objects. For example, buried metal utilities produce anomalies with lengths many times their widths.

GPR. There are limitations of the GPR method used to detect and/or locate targets such as those of the objectives of this survey. Limitations include: (1) surface conditions, (2) electrical conductivity of the ground, (3) contrast of the electrical properties of the target and the surrounding soil, and (4) spacing of the traverses. Of these restrictions, only the last is controllable by us.

The condition of the ground surface can affect the quality of the GPR data and the depth of penetration of the GPR signal. Sites covered with snow piles, high grass, bushes, landscape structures, debris, obstacles, soil mounds, etc. limit the survey access and the coupling of the GPR antenna with the ground. In many cases, the GPR signal will not penetrate below concrete pavement, especially inside buildings, and a target may not be detectable. The GPR method also commonly does not provide useful data under canopies found at some facilities.

The electrical conductivity of the ground determines the attenuation of the GPR signal and thereby limits the maximum depth of exploration. For example, the GPR signal does not penetrate clay-rich soils, and targets buried in clay might not be detected.

A definite contrast in the electrical conductivities of the surrounding ground and the target material is required to obtain a reflection of the GPR signal. If the contrast is too small, possibly due to construction details or deeply corroded metal in the target, then the reflection may be too weak to recognize, and the target can be missed.

Spacing of the traverses is limited by access at many sites, but where flexibility of traverse spacing is possible, the spacing is adjusted to the size of the target. The GPR operator controls the spacing between lines, and the design of the survey is based on the dimensions of the smallest feature of interest. Targets with dimensions smaller than the spacing between GPR survey lines can be missed.

RESULTS

General. The geophysical survey was conducted using the EM31 method across the accessible portions of the specified AOI and the EM61 was used to cover the most significant areas of possible waste material as determined from a field interpretation of the EM31 data. GPR traverses were also acquired across portions of the AOI to determine depths of materials, if possible. Plates 1 and 2 show color contour plots of the EM31 quadrature-phase data and EM31 in-phase data, respectively. Plate 3 shows a color contour plot of the EM61 bottom coil response. Plate 4 shows the integrated interpretation of the geophysical data.

EM31 Quadrature Phase Data. The EM31 measures both the quadrature-phase and in-phase components of terrain conductivity. The quadrature-phase data, also known as apparent conductivity data, are useful for detecting the presence of anomalously conductive ground, which might be caused by the presence of objects with properties unlike those of the natural materials, such fill containing

waste materials. The in-phase component data, on the other hand, are only used to interpret the presence of metal objects.

A prominent high amplitude anomaly in the central portion of the area of interest is evident in the color contour plot for the apparent conductivity data shown in Plate 1. We infer that the high amplitude anomaly is caused by the presence of conductive waste materials. The high-amplitude anomaly attributed to waste materials is represented in Plate 4 by three concentric shaded areas corresponding to materials with slightly elevated apparent ground conductivity (conductivity > ~10 mS/m), moderately elevated apparent ground conductivity (conductivity > ~35 mS/m), and very elevated apparent ground conductivity (conductivity > ~75mS/m). Areas outside of the apparent ground conductivity anomaly have relatively low apparent ground conductivities below ~10 mS/m. A few small high amplitude apparent ground conductivity anomalies are attributed to surface metal objects such as buildings and other structures and their locations are included within blue hatched areas (EM anomalies attributed to surface metal) in Plate 4. We note that the presence or absence of landfill materials in such areas cannot be determined on the basis of the EM data alone because of the anomaly caused by the surface metal objects.

EM31 In-phase Data and EM61 Data. The EM31 in-phase component data are used to detect buried metal to a depth of approximately 18 feet, and the EM61 can detect buried metal to a depth of approximately 8 feet. However above-ground objects containing metal also can cause EM anomalies. Several moderate- to high-amplitude EM anomalies (green to red areas in Plates 2 and 3) present within the AOI are attributed to surface features containing metal such as chain-link fencing, buildings and foundations, metal posts and signs, manholes and catch basins, bleachers, storage containers, and guard rails. The locations of anomalies attributed to surface metal objects are depicted as blue hatched areas in the integrated interpretation shown in Plate 4. We note that the presence or absence of subsurface metal in such areas cannot be determined based upon the EM data alone because of the anomalies caused by the surface metal objects.

Multiple moderate- to high-amplitude EM31 in-phase and EM61 anomalies (green to red areas) not attributable to surface features are observed in the EM data for the AOI, as is evident in Plates 2 and 3. Such anomalies are shown as red crosshatched areas in Plate 4, and we infer that buried metal/fill is present at such locations. An examination of Plate 4 shows that a significant portion of the buried metal coincides with the area of elevated apparent ground conductivity, although there are several significant outliers on the east and west sides of the apparent ground conductivity anomaly, mostly represented in the EM61 data (Plate 3). We note that the most significant high amplitude EM31 in-phase anomaly (Plate 2) approximately coincides with the very elevated apparent ground conductivity, and might be indicative of a deeper, more concentrated zone of metal bearing waste.

GPR. Apparent GPR signal penetration was variable. In some areas near the edges of the AOI, two-way travel time reflections were received from 120 – 144 ns for the 350 MHz hyperstacking antenna, which corresponds with an estimated depth range of approximately 20 to 25 feet. However, for most of the areas near the center of the AOI, GPR reflections were received from 50 to 75 ns, corresponding to an estimated depth range of 8 to 12 feet.

GPR reflections consistent with the bottom of the waste were not exhibited in the GPR data, possibly because the depth of GPR penetration was less than the expected depth of waste. GPR reflections consistent with a shallow horizon (approximately 1-foot deep) were exhibited in an area that coincided in large part with the high apparent conductivity anomaly in the center of the AOI, and we infer that this horizon might represent the top of the fill surface. The possible fill horizon is relatively level in its central portion, and dips away on the north, east, and south sides, giving the appearance of mounded material. A black dashed line in Plate 4 shows the approximate location where the possible fill surface horizon dips deeper than about 3 feet. Note that a dipping west side of the horizon was not observed because of the steep slope up to the parking area on the west side of Fields 1 and 2. We note that the approximate limit of the mounded material approximately coincides with the zone of moderate to very high apparent ground conductivity and together may represent the approximate edge of the concentrated core of the former landfill.

GPR data in areas of buried metal outside of the high apparent conductivity anomaly did not produce reflections consistent with fill horizons or discrete objects.

CONCLUSIONS

Based upon the geophysical survey performed by Hager-Richter Geoscience, Inc. (HRGS) at Trotting Field Park located at 525 Gifford Road in Falmouth Massachusetts in February 2025 for Arcadis, we conclude the following:

- A prominent high amplitude apparent ground conductivity anomaly in the central portion of the area of interest is inferred to be caused by the presence of conductive waste materials.
- Areas of buried metal are present across the area of interest and are concentrated in an area that coincides with the high amplitude apparent ground conductivity anomaly in the central portion of the area of interest.
- The approximate north, east, and south sides of a possible zone of mounded material was detected by the GPR survey in an area that coincides with the high amplitude apparent ground conductivity anomaly in the central portion of the area of interest.

LIMITATIONS ON USE OF THIS REPORT

This letter report was prepared for the exclusive use of Arcadis U.S., Inc. (Client). No other party shall be entitled to rely on this Report, or any information, documents, records, data, interpretations, advice, or opinions given to Client by Hager-Richter Geoscience, Inc. (HRGS) in the performance of its work. The Report relates solely to the specific project for which HRGS has been retained and shall not be used or relied upon by Client or any third party for any variation or extension of this project, any other project or any other purpose without the express written permission of HRGS. Any unpermitted use by Client or any third party shall be at Client's or such third party's own risk and without any liability to HRGS.

HRGS has used reasonable care, skill, competence and judgment in the performance of its services for this project consistent with professional standards for those providing similar services at the same time, in the same locale, and under like circumstances. Unless otherwise stated, the work performed by HRGS should be understood to be exploratory and interpretational in character and any results, findings or

recommendations contained in this Report or resulting from the work proposed may include decisions which are judgmental in nature and not necessarily based solely on pure science or engineering. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory testing.

Except as expressly provided in this Limitations section, HRGS makes no other representation or warranty of any kind whatsoever, oral or written, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed.

If you have any questions or comments on this letter report, please contact us at your convenience. It has been a pleasure to work with Arcadis on this project. We look forward to working with you again in the future.

Sincerely,
HAGER-RICHTER GEOSCIENCE, INC.

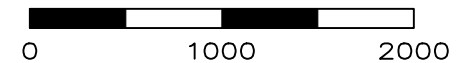
A handwritten signature in blue ink, appearing to read "Steven Grant".

Steven Grant, P.G.
Senior Geophysicist

Attachments: Figure 1
Plates 1-4



APPROXIMATE SCALE (feet)



NOTE:

Modified from Google Earth Pro aerial photograph.

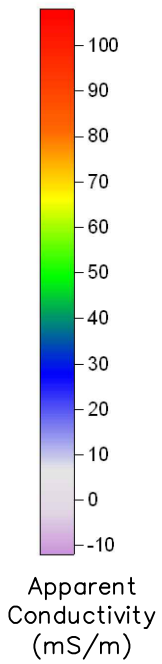
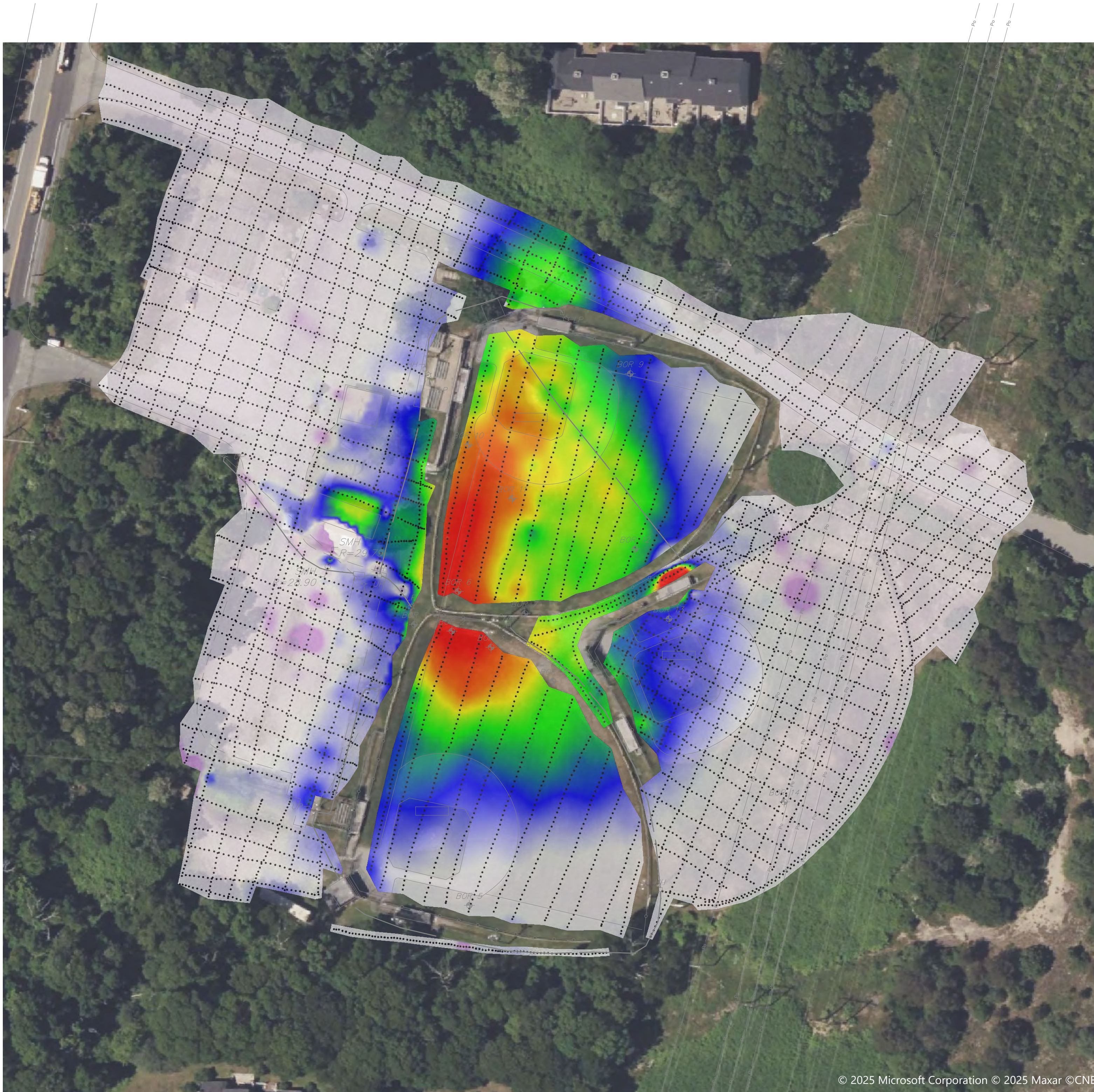
Figure 1
General Site Location
Landfill Delineation
Trotting Field
525 Gifford Street
Falmouth, Massachusetts

File 25VD02

February, 2025

HRGS

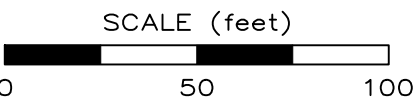
**Derry, NH
Fords, NJ**



Apparent
Conductivity
(mS/m)

LEGEND

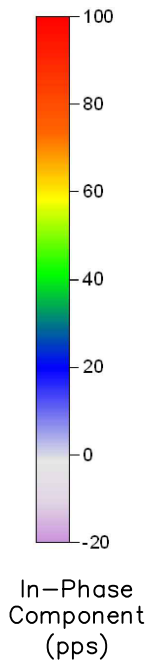
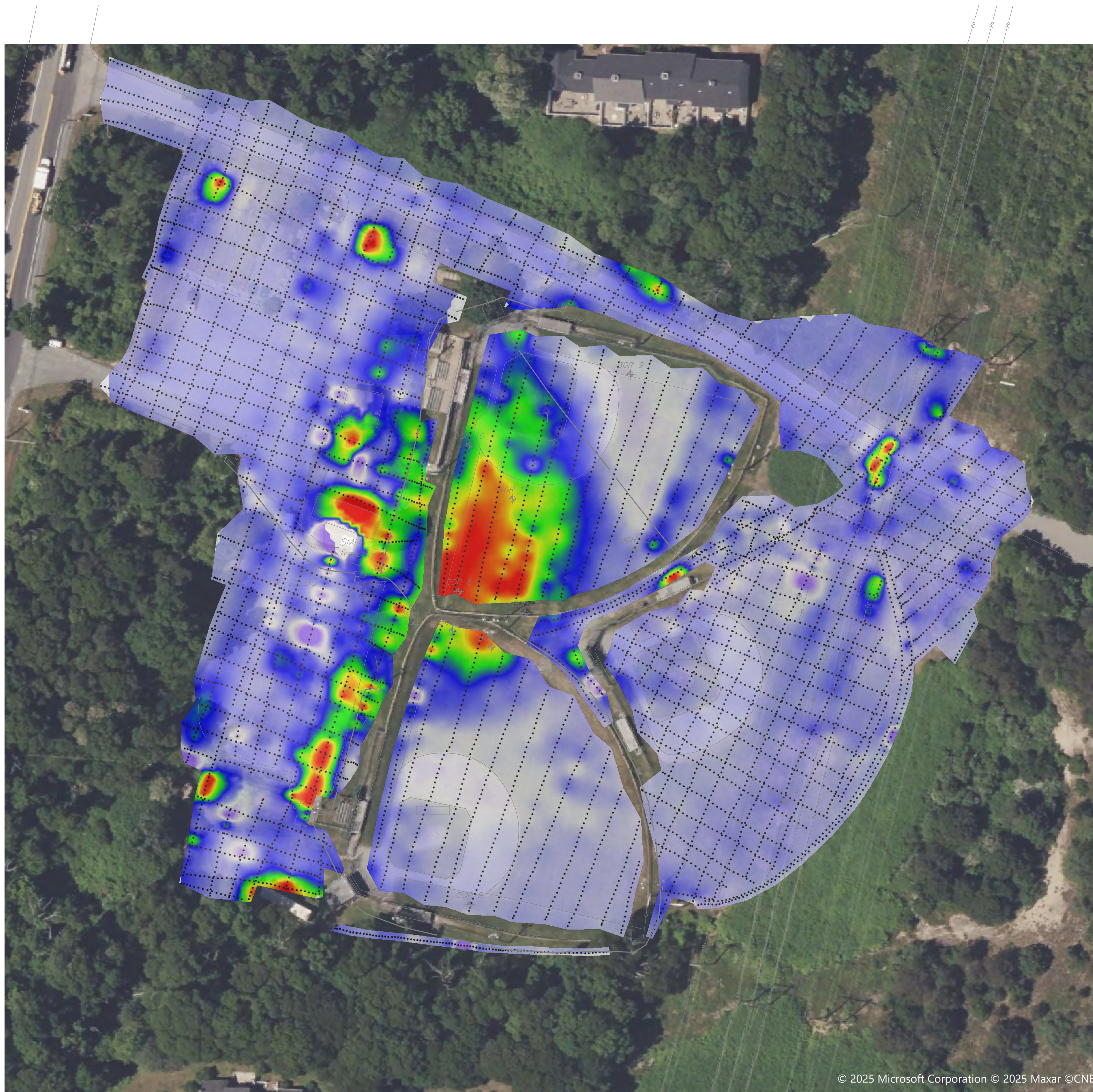
..... DATA STATIONS



NOTES:

1. Modified from site plan provided by Arcadis | Arcadis U.S. Inc., identified as FALMOUTH DPW_TROTTER PARK baseball.dwg.
2. Data were acquired with a Geonics EM31-MK2 in vertical dipole mode with boom parallel to traverse line where possible.

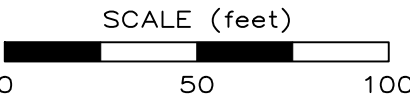
PLATE 1 EM31 SURVEY APPARENT CONDUCTIVITY LANDFILL DELINEATION TROTTER FIELD 525 GIFFORD STREET FALMOUTH, MASSACHUSETTS	
FILE 25VD02	February, 2025
HRGS	Derry, NH Fords, NJ



In-Phase
Component
(pps)

LEGEND

..... DATA STATIONS



NOTES:

1. Modified from site plan provided by Arcadis | Arcadis U.S. Inc., identified as FALMOUTH DPW_TROTTER PARK baseball.dwg.
2. Data were acquired with a Geonics EM31-MK2 in vertical dipole mode with boom parallel to traverse line where possible.

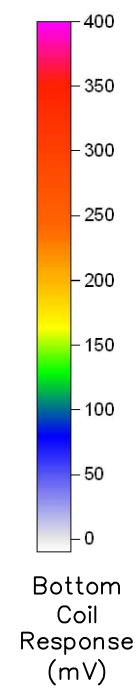
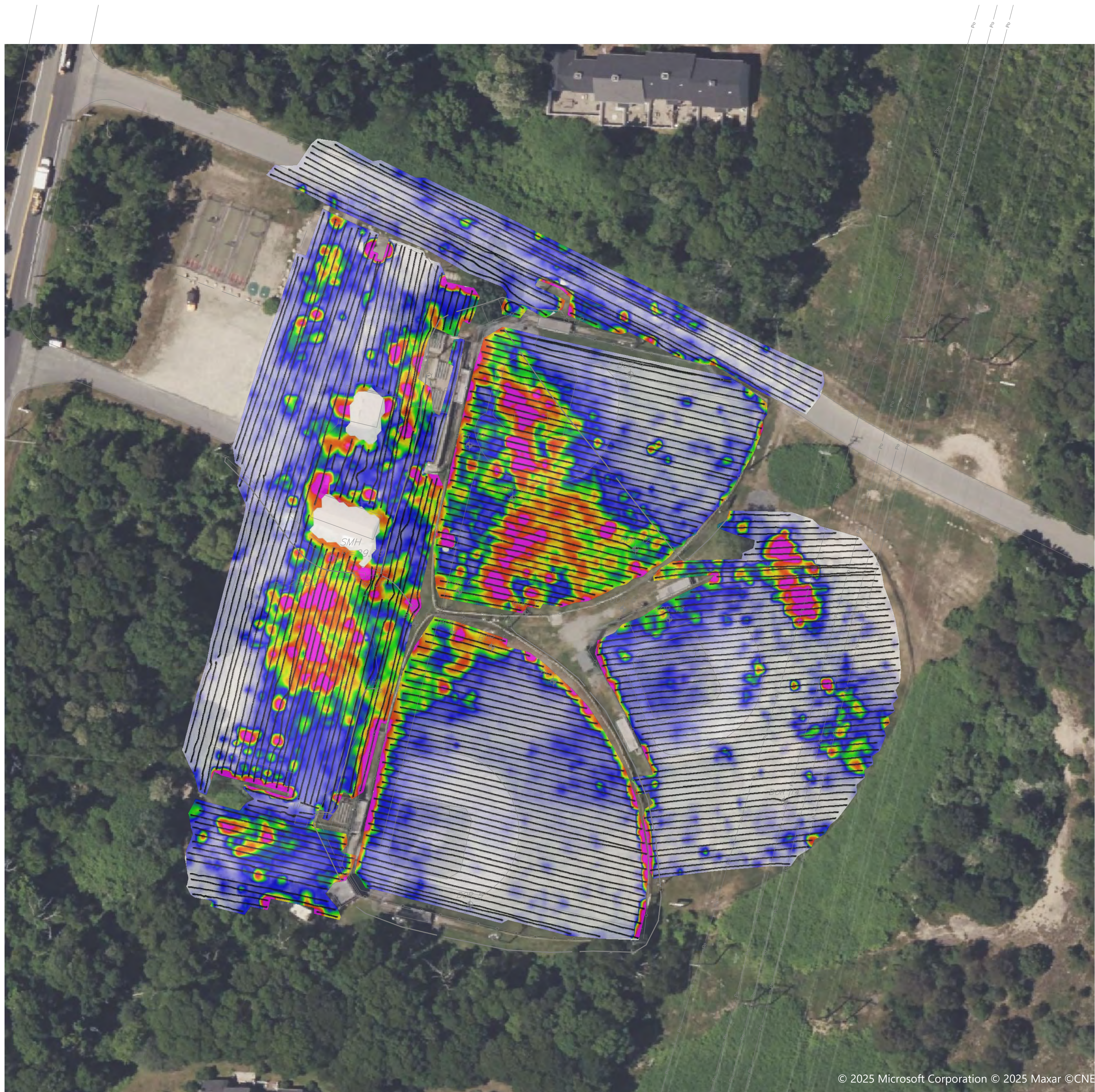
PLATE 2
EM31 SURVEY
IN-PHASE COMPONENT
LANDFILL DELINEATION
TROTTER FIELD
525 GIFFORD STREET
FALMOUTH, MASSACHUSETTS

FILE 25VD02

February, 2025

HRGS

**Derry, NH
Fords, NJ**



Bottom
Coil
Response
(mV)

LEGEND

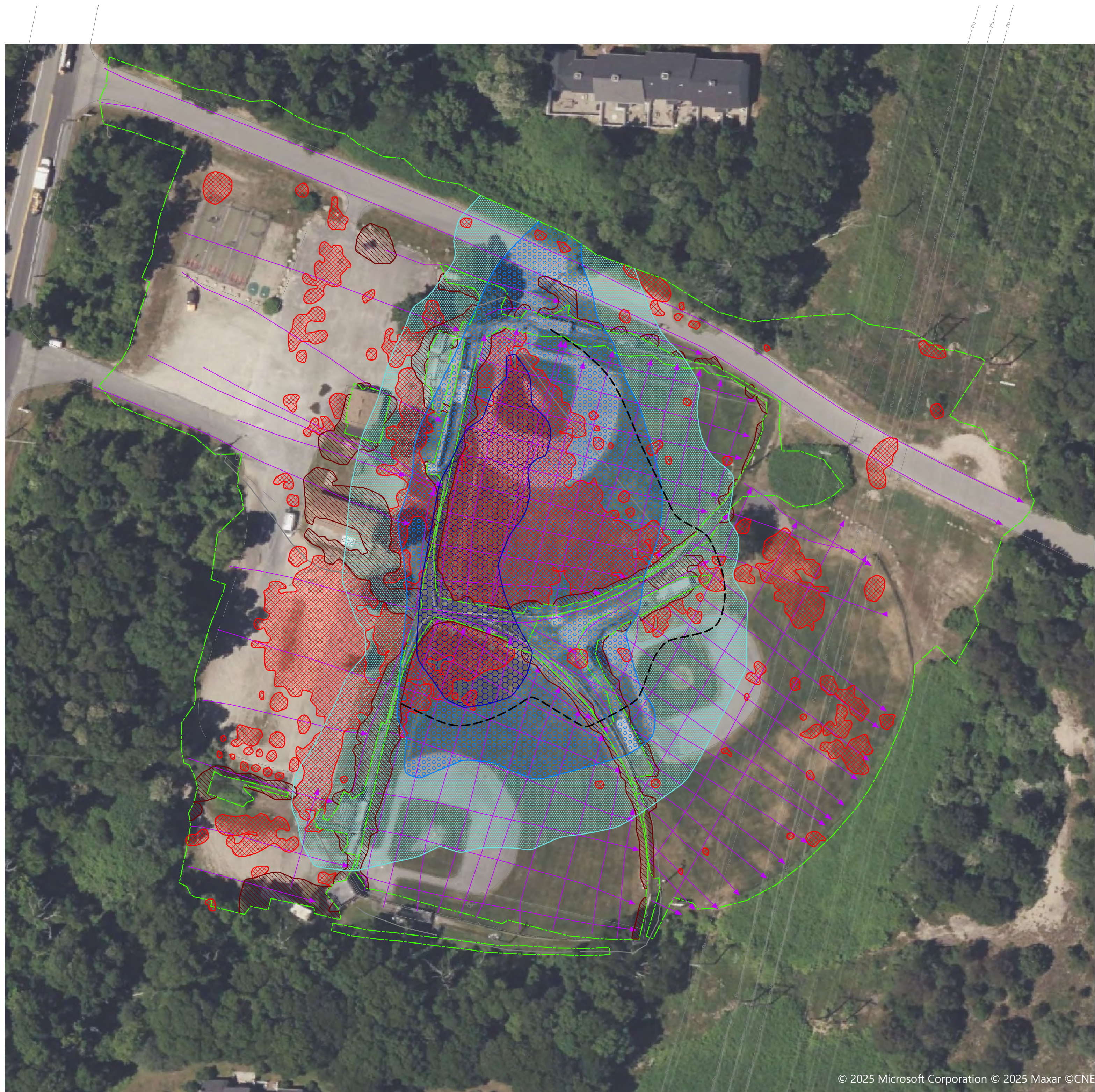
DATA STATIONS



NOTES:

1. Modified from site plan provided by Arcadis | Arcadis U.S. Inc., identified as FALMOUTH DPW_TROTting PARK baseball.dwg.
2. Data were acquired with Geonics EM61-MK2. Bottom coil response shown.

PLATE 3 EM61 SURVEY LANDFILL DELINEATION TROTting FIELD 525 GIFFORD STREET FALMOUTH, MASSACHUSETTS	
FILE 25VD02	February, 2025
HRGS	Derry, NH Fords, NJ



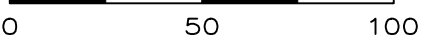
N



LEGEND

- APPROXIMATE LIMITS OF EM SURVEY AREA
- GPR TRAVERSE
- AREA OF POSSIBLE BURIED METAL
- VERY ELEVATED CONDUCTIVITY (>70M S/M)
- MODERATE ELEVATED CONDUCTIVITY (>70M S/M)
- SLIGHTLY ELEVATED CONDUCTIVITY (>70M S/M)
- TOP OF LANDFILL MATERIAL LESS THAN 3FT DEEP
- EM ANOMALY ATTRIBUTED TO EFFECTS OF SURFACE OBJECTS. (SEE TEXT)

SCALE (feet)



NOTE:

Modified from site plan provided by
Arcadis | Arcadis U.S. Inc., identified
as FALMOUTH DPW_TROTTER PARK
baseball.dwg.

PLATE 4
GPR SURVEY &
INTEGRATED INTERPRETATION
LANDFILL DELINEATION
TROTTER FIELD
525 GIFFORD STREET
FALMOUTH, MASSACHUSETTS

FILE 25VD02

February, 2025

HRGS

**Derry, NH
Fords, NJ**

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