



Goldman
Environmental
Consultants, Inc.

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Braintree, MA 02184

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September 9, 2020

EMD Turnpike Realty Trust
3 Spruce Pond Road
Franklin, MA 02038
Attn.: Mrs. Jeanne Fegan

**RE: Phase II Subsurface Investigations & UST Removal Report
2210 Providence Highway, Walpole, MA
GEC Project No. 1936-0010**

Dear Mrs. Fegan:

Goldman Environmental Consultants, Inc. (GEC) of Braintree, Massachusetts has completed a limited follow-up investigation and closure assessment of a #2 fuel oil underground storage tank (UST) at the property addressed under 2210 Providence Highway, Walpole, Massachusetts and presently identified on the Town of Walpole Assessor's Map #54 as Lots 32, 36 and 37 (hereinafter "the Site"). The Site is located south of Providence Highway (a.k.a. Route 1, Boston-Providence Turnpike and General Edwards Highway) and north of Sunset Drive, approximately 165 feet east of Hilltop Drive, in Walpole, Massachusetts. The Site encompasses approximately 1.53 acres and is improved by a one-story commercial structure (the "Site building") and an asphalt-paved parking lot. See Figure 1, the Site Locus.

1.0 BACKGROUND

On behalf of EMD Turnpike Realty Trust, GEC completed a Phase I Environmental Site Assessment (ESA) report, dated June 23, 2020, for the Site (GEC Project No. 1936-0010). During the Phase I ESA, GEC observed physical evidence of an out-of-use heating oil UST and possibly of another fuel oil UST system at the rear of the Site building. In order to determine the status of the suspect heating oil tank and confirm the location of the out-of-service tank, a ground penetrating radar (GPR) survey/geophysical survey was conducted to investigate the location of abandoned UST(s) and/or former UST location/grave at the Site. Refer to Figure 2 for the Site Diagram depicting suspect UST locations.

2.0 Phase II Subsurface Investigations

2.1 Ground Penetrating Radar (GPR) Survey/Geophysical Survey

On July 30, 2020, a GPR survey (ground-penetrating radar and electromagnetic anomaly survey) was conducted by Mr. Matthew Caerulus of GPRS, Inc (GPRS) to search for features or situations indicating the presence of abandoned USTs and/or historic tank graves. GEC was on-Site during the survey to oversee these activities. The geophysical survey was performed using an Underground Scanning GPR Antenna and an Electromagnetic Pipe Locator and focused on two areas of the Site along the south (rear) elevation of the Site building where vent pipes, fill port and/or fuel lines were observed during GEC's initial investigation.

One (1) UST was identified by GPRS at depth of about 1.5 feet on the southwest side of the Site building, but no suspect UST and no tank grave were detected across the other surveyed area. Refer to the GPRS Geophysical Survey report in Attachment B for additional

details, Figure 2 depicting the areas covered by the geophysical survey and, Attachment A for the Site Photographs for the location of the confirmed UST.

Based on the outcome of the geophysical survey, tank closure activities were subsequently conducted as described in Section 3.0.

2.2 Subsurface Assessment

As the GRP established the existence of a UST at the rear of the Site building, EMD Turnpike Realty Trust contracted Dowling Corporation (Dowling) of Wrentham, Massachusetts to remove the UST and contracted GEC to provide oversight of UST removal activities and conduct confirmatory soil sampling for tank closure. GEC coordinated with Dowling to remove the identified out-of-use fuel oil UST system. Upon obtaining an Application and Permit for Steel Underground Storage Tank Removal from the Walpole Fire Department, trenching permit #2020-129 from the Walpole Building Department and EPA registry number for waste disposal by Dowling, Dowling and GEC staff mobilized to the Site on August 21, 2020 to initiate the removal of the tank under Massachusetts DIGSAFE ticket number 220203215762 (see following Section 3.0).

As the GRP survey did not identify evidence of a second tank or tank grave in the area of the suspect UST, no further subsurface investigation was conducted.

3.0 UST Removal Activities/Tank Closure Statement

On August 21, 2020, Mr. Andrew Foley and Ms. Valerie Dougados of GEC were on-Site with Dowling personnel to perform the removal of the above-mentioned abandoned heating oil UST in accordance with state and local rules, regulations and guidance, including Massachusetts Department of Environmental Protection (MassDEP) "Underground Storage Tank Closure Assessment Manual" (MassDEP Policy #WSC-402-96) and state fire prevention regulations (527 CMR 9.07(K)(4)).

Dowling uncovered the top of the tank using an excavator. The top of the tank was encountered approximately 1.5 feet below grade and was in good condition, with no odors or oily-stained soils observed where feed, fill and vent pipes were located. At this point, soil samples were collected from one foot down each of the tank's sidewalls and GEC performed headspace screenings of these soils for total volatile organic compounds (VOCs) using a photoionization detector (PID) equipped with a 10.6 eV lamp and calibrated to 100 parts per million per volume (ppmv) Isobutylene gas. PID readings of the screened soil samples ranged from none detect to 0.2 ppmv.

Dowling then cut open a section of the top of tank and visual inspection of the tank revealed that it was a single wall tank of steel construction. GEC noted about six inches of oil/water mixture at the bottom of the tank. US Ecology's vacuum-mounted truck was brought in to pump out residual liquid from the tank. According to the waste manifest approximately 70 gallons of oily water was pumped out and transported off-Site under waste manifest # 021411760 to Trabede T&R of Stoughton, MA on August 21, 2020. A copy of the waste disposal document is included in Attachment C. Dowling employee then accessed the interior of the tank for cleaning operations and resulting oily sludge and oily absorbent pads that were

disposed of into plastic bags for off-Site disposal. During hand-cleaning, Dowling reportedly discovered small bubbles on the interior surface, but no apparent holes.

Two sides of the tank were subsequently uncovered to ease tank pull and no staining was observed by GEC. At this point, GEC collected one composite soil sample and one grab sample from the south and east exposed sidewalls of the tank grave identified as South & East Sidewall samples (see Figure 2 for sampling location).

At approximately 11:00 a.m., Captain Paul Carter of the Walpole Fire Department arrived on-Site and observed the UST as it was pulled from the excavation by a Dowling excavator operator. Satisfied by soil and tank conditions, Captain Paul Carter granted Dowling to backfill the excavation and reported that he would sign the tank removal permit once he returned at the office.

Once excavated, GEC visually inspected the estimated 750-gallon fuel oil UST and observed slight rusting and some minor pitting/scaling on its northern end. The overall condition of the tank was good with no apparent holes or cracks. The tank was then loaded onto a flatbed trailer truck, secured and transported to an approved tank yard #15 operated by Allied Recycling Center Inc. of Walpole, Massachusetts. A copy of Form FP 291 - Receipt of Disposal of Underground Steel Storage Tank – documenting proper disposition of the tank, and Form FP 290R – Application and Permit for storage tank removal - are attached in Attachment C.

GEC also inspected the tank grave and noted no visual or olfactory evidence of a petroleum release. Soil profile consisted of brown sand overlain by a layer of gravel and sandy loam with material debris. GEC observed wood planks that had been installed below the UST serving as supports. At no time throughout the excavation process was groundwater encountered. GEC also collected soil samples from each tank grave sidewalls and bottom that were field screened using the PID. PID readings ranged between 0.0 and 0.2 ppm.

GEC subsequently collected additional confirmatory soil samples, specifically two bottom samples (one grab sample and one composite sample) identified as Bottom samples at areas covering each end and the middle at depths between 7-8 feet below grade surface (BGS) and two sidewall samples (one grab sample and one composite sample) identified as North & West samples on the north and west sidewalls of the tank grave at about 5 feet BSG (see Figure 2 for sampling locations).

After the collection of confirmatory soil sampling, the feed and return lines were pulled out and the tank grave was backfilled with the excavated material that had shown no evidence of fuel release. No fill material was needed to bring the excavation to grade. See Attachment A for Site Photographs.

GEC finally submitted all six soil samples under chain-of-custody record to Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, MA, a state certified laboratory, for analysis of Extractable Petroleum Hydrocarbons (EPH), including four target polycyclic aromatic hydrocarbons (PAHs) and Volatile Petroleum Hydrocarbons (VPH), including target volatile organic compounds (VOCs) via the MassDEP Methods.

On August 31, 2020, Con-Test published its Certificate of Analysis for the UST grave sidewall and bottom samples. The review of the analytical results of the post-excavation soil samples indicated that no EPHs, VPH or target constituents were detected above laboratory detection limits in the sidewall and bottom samples collected from the tank grave. Table 1 attached to this report provides a summary of the laboratory analytical data and MassDEP's RCS-1 and RCS-2 Soil Reportable Concentrations (RCs). The Certificate of Analysis is provided in Attachment D.

4.0 Conclusions

Based on the findings of the Phase I ESA, a geophysical survey was recommended to further evaluate the presence of two possible USTs. Upon completion of the GPR survey, one UST was identified and subsequently removed in accordance with local and state regulations. Through the duration of Site excavation and associated UST removal operations, no petroleum-impacted soils were encountered, no elevated PID readings were measured or no holes were observed on the tank. Additionally, GEC did not observe any groundwater entering the excavation during the tank removal activities. The subsurface investigation associated with the tank removal found no evidence of a release of OHM to the environment.

Therefore, based on GEC's field observations and analytical results of confirmatory soil sampling, no petroleum contamination was identified in association with the heating oil UST removed from the Site and no further action is required in association with this UST. GEC will submit to MassDEP the Forms included in Attachment E for regulatory closure.

GEC appreciates the opportunity to provide you with our quality consulting services. Please contact the undersigned at (781) 356-9140 with any questions or comments.

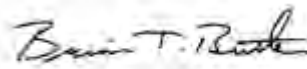
Respectfully submitted,
Goldman Environmental Consultants, Inc.

Prepared by:



Valerie Dougados
Senior Environmental Site Assessor

Reviewed and Approved by:



Brian T. Butler, PG, LSP
Senior Vice President, Operations

Attachments:

- Figure 1 – Site Locus
- Figure 2 – Site Diagram
- Table 1 – Confirmatory Soil Sampling Results for EPH & VPH Constituents
- Attachment A: Site Photographs
- Attachment B: GPRS Geophysical Survey Report
- Attachment C: Tank Removal Permits & Waste Disposal Documents
- Attachment D: Laboratory Certificates of Analysis
- Attachment E: MassDEP UST Forms

P:\Projects\1936 EMD Turnpike Realty Trust\1936-0030 Tank removal 2210 Providence Highway, Walpole, MA\1936-0030 Phase II Report 2210 Providence Highway Walpole MA.docx

FIGURES



USGS 7.5 Minute Topographic, dated 2018

Mansfield
Massachusetts Quadrangle



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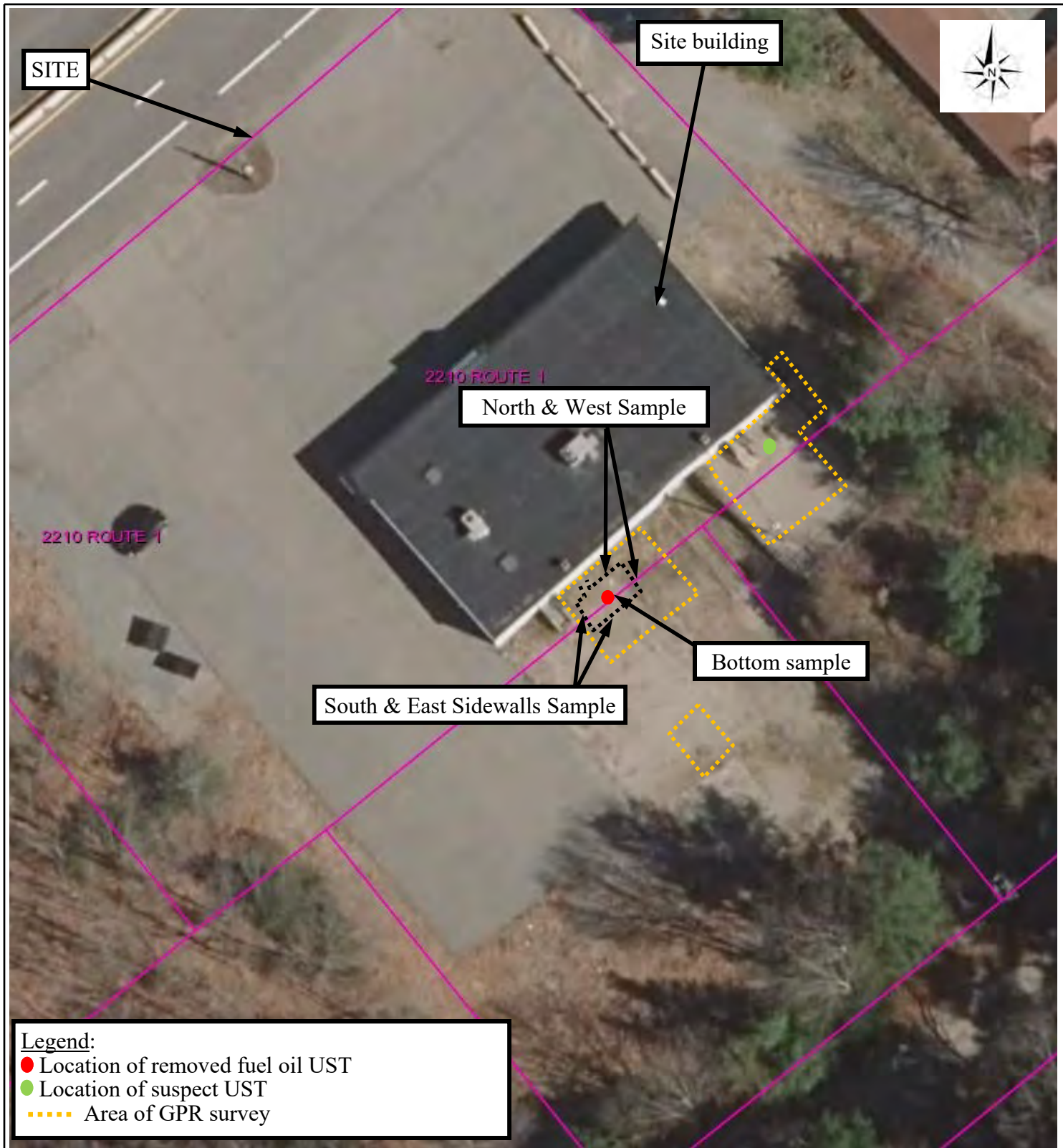
SITE LOCUS

**2210 Providence Highway
Walpole, Massachusetts**

GEC Project #: 1936-0030

Figure 1





Based on Aerial Photography 2019 and Assessor's Map



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SITE DIAGRAM

**2210 Providence Highway
Walpole, Massachusetts**

GEC Project #: 1936-0030

Figure 2

Scale
NTS

TABLE 1:

Confirmatory Soil Sampling Results for EPH & VPH Constituents

MA

Parameter	Reportable Concentrations (RCs)		SAMPLING LOCATION					
	RCS-1	RCS-2	Bottom	Bottom	North & West	North & West	South & East Sidewall	South & East Sidewall
Sampling Date			8/21/2020 11:20:00 AM	8/21/2020 11:25:00 AM	8/21/2020 10:30:00 AM	8/21/2020 10:35:00 AM	8/21/2020 9:40:00 AM	8/21/2020 9:50:00 AM
Sample Depth			- Feet	- Feet	- Feet	- Feet	- Feet	- Feet
MADEP EPH rev 2.1 (mg/Kg dry)								
C9-C18 ALIPHATICS	1000	3000	ND (11)	NT	ND (10)	NT	ND (11)	NT
C19-C36 ALIPHATICS	3000	5000	ND (11)	NT	ND (10)	NT	ND (11)	NT
UNADJUSTED C11-C22 AROMATICS	~	~	ND (11)	NT	ND (10)	NT	ND (11)	NT
C11-C22 AROMATICS	1000	3000	ND (11)	NT	ND (10)	NT	ND (11)	NT
ACENAPHTHENE	4	3000	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
ACENAPHTHYLENE	1	10	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
ANTHRACENE	1000	3000	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
BENZO(A)ANTHRACENE	7	40	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
BENZO(A)PYRENE	2	7	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
BENZO(B)FLUORANTHENE	7	40	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
BENZO(G,H,I)PERYLENE	1000	3000	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
BENZO(K)FLUORANTHENE	70	400	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
CHRYSENE	70	400	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
DIBENZ(A,H)ANTHRACENE	0.7	4	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
FLUORANTHENE	1000	3000	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
FLUORENE	1000	3000	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
INDENO(1,2,3-CD)PYRENE	7	40	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
2-METHYLNAPHTHALENE	0.7	80	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
NAPHTHALENE	4	20	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
PHENANTHRENE	10	1000	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
PYRENE	1000	3000	ND (0.11)	NT	ND (0.10)	NT	ND (0.11)	NT
MADEP-VPH-Feb 2018 Rev 2.1 (mg/Kg dry)								
UNADJUSTED C5-C8 ALIPHATICS	~	~	NT	ND (8.2)	NT	ND (8.5)	NT	ND (12)
C5-C8 ALIPHATICS	100	500	NT	ND (8.2)	NT	ND (8.5)	NT	ND (12)
UNADJUSTED C9-C12 ALIPHATICS	~	~	NT	ND (8.2)	NT	ND (8.5)	NT	ND (12)
C9-C12 ALIPHATICS	1000	3000	NT	ND (8.2)	NT	ND (8.5)	NT	ND (12)
C9-C10 AROMATICS	100	500	NT	ND (8.2)	NT	ND (8.5)	NT	ND (12)
BENZENE	2	200	NT	ND (0.041)	NT	ND (0.043)	NT	ND (0.059)
ETHYLBENZENE	40	1000	NT	ND (0.041)	NT	ND (0.043)	NT	ND (0.059)
METHYL TERT-BUTYL ETHER (MTBE)	0.1	100	NT	ND (0.041)	NT	ND (0.043)	NT	ND (0.059)
NAPHTHALENE	4	20	NT	ND (0.21)	NT	ND (0.21)	NT	ND (0.29)
TOLUENE	30	1000	NT	ND (0.041)	NT	ND (0.043)	NT	ND (0.059)
M/P-XYLENE	100	100	NT	ND (0.082)	NT	ND (0.085)	NT	ND (0.12)
O-XYLENE	100	100	NT	ND (0.041)	NT	ND (0.043)	NT	ND (0.059)
SM 2540G (% Wt)								
% Solids	~	~	95.2	91.1	95.6	95.6	95.2	95.8

NOTES:

1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria
2. ND = Not detected above the lab reporting limits shown in parenthesis.
3. NT = Not tested.
4. ~ = No Method 1 Standard or UCL available
5. Shaded values exceed the MCP Reportable Concentrations (RCs).
6. Bolded values exceed the Method 1 Cleanup Standards.
7. Bold Red values exceed the TCLP limits.

ATTACHMENT A:

Site Photographs



GEC Project No. 1936-0030. June 12, 2020. 2210 Providence Highway, Walpole, MA. The Site building's north elevation as viewed from the parking lot, looking southwest.



GEC Project No. 1936-0030. July 30, 2020. 2210 Providence Highway, Walpole, MA. Delineation of the UST identified during the geophysical survey.



GEC Project No. 1936-0010. June 12, 2020. 2210 Providence Highway, Walpole, MA. View of the UST vent pipe protruding from the ground along the south exterior wall of the Site building prior to excavation



GEC Project No. 1936-0030. June 12, 2020. 2210 Providence Highway, Walpole, MA. View of the uncapped UST fill port present along the south side of the Site building, near the westerly-located vent pipe, prior to excavation.



GEC Project No. 1936-0030. July 30, 2020. 2210 Providence Highway, Walpole, MA.
Photograph of the uncovering of UST.



GEC Project No. 1936-0030. July 30, 2020. 2210 Providence Highway, Walpole, MA.
General view of the inside the tank prior to cleaning operations.



GEC Project No. 1936-0030. June 12, 2020. 2210 Providence Highway, Walpole, MA.
View of the residual oil/water mixture being pumped out from the UST.



GEC Project No. 1936-0030. July 30, 2020. 2210 Providence Highway, Walpole, MA.
Photograph of the exposed UST and soil conditions along its south and east sides.



GEC Project No. 1936-0030. June 12, 2020. 2210 Providence Highway, Walpole, MA.
View of the UST being pulled out from the ground under the witness of the Dire Department.



GEC Project No. 1936-0030. June 12, 2020. 2210 Providence Highway, Walpole, MA.
View of the mild rusting and pitting observed on the exterior steel wall of the tank.



GEC Project No. 1936-0030. July 30, 2020. 2210 Providence Highway, Walpole, MA.
General view of the soil conditions in the tank grave following removal of the UST.



GEC Project No. 1936-0030. July 30, 2020. 2210 Providence Highway, Walpole, MA.
General view of the tank being placed on the truck for off-Site disposal.

APPENDIX B:

GPRS Geophysical Survey Report



Summary of Scanning for Underground Storage Tanks (UST's)

Prepared For: Goldman Environmental

Prepared By:

Matthew Caerulus

matthew.caerulus@gprsinc.com

Project Manager-Northeast-Boston/ Upstate NY

(617)-655-4971

August 2, 2020

August 2, 2020

Goldman Environmental

Attn: Valerie Dougados

Site: Walpole, MA

We appreciate the opportunity to provide this report for our work completed on July 30, 2020.

PURPOSE

The purpose of this project was to search for any suspected underground storage tanks (USTs) or suspected UST-related piping/anomalies remaining on the property. The scope of work consisted of 2 location(s) measuring approximately 100 square feet each. The interiors of buildings were excluded from the scope of this project. The client marked the desired locations prior to our scanning and our markings were then placed onto the surface using WHITE pin flags.

Site Specific Scope of Work:

One of the two areas investigated was known to have a potential UST. The Second area had only a proposed UST location. The client only wished to see if there was evidence of any potential USTs within the second location area.

EQUIPMENT

- **Underground Scanning GPR Antenna.** The antenna with frequencies ranging from 250 MHz-450 MHz is mounted in a stroller frame which rolls over the surface. The surface needs to be reasonably smooth and unobstructed in order to obtain readable scans. Obstructions such as curbs, landscaping, and vegetation will limit the feasibility of GPR. The data is displayed on a screen and marked in the field in real time. The total depth achieved can be as much as 8' or more with this antenna but can vary widely depending on the types of materials being scanned through. Some soil types such as clay may limit maximum depths to 3' or less. As depth increases, targets must be larger in order to be detected and non-metallic targets can be especially difficult to locate. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: [Link](#)
- **Electromagnetic Pipe Locator.** The EM locator can passively detect the electromagnetic fields from live AC power or from radio signals travelling along some conductive utilities. It can also be used in conjunction with a transmitter to connect directly to accessible, metallic pipes or tracer wires. A current is sent through the pipe or tracer wire at a specific frequency and the resulting EM field can then be detected by the receiver. A utility's ability to be located depends on a variety of factors including access to the utility, conductivity, grounding, interference from other fields, and many others. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: [Link](#)

PROCESS

The EM pipe locator was used to connect to accessible, traceable pipes that may be tank-related such as vent pipes or product lines. A current is induced onto the pipe which creates an electromagnetic field that can be traced using the receiver. We can then attempt to trace these pipes to their origin or end point and paint or flag their locations.

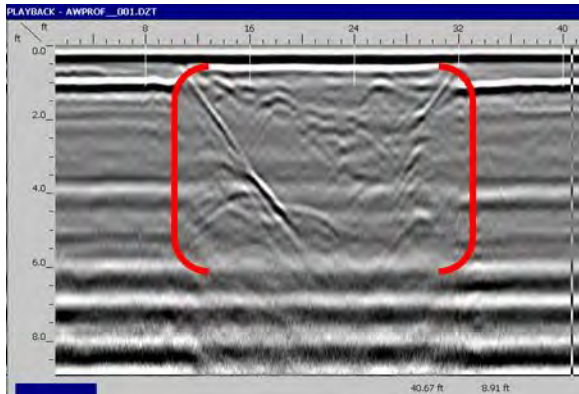
Initial GPR scans were collected in order to evaluate the data and calibrate the equipment. Based on these findings, a scanning strategy is formed, consisting of scanning the entire area in a grid with 2-foot scan spacing in order to locate any potential UST's that may remain at the site. The GPR data is viewed in real time and anomalies in the data were located and marked on the surface along with their depths using WHITE pin flags. Relevant scan examples were saved and will be provided in this report.

LIMITATIONS

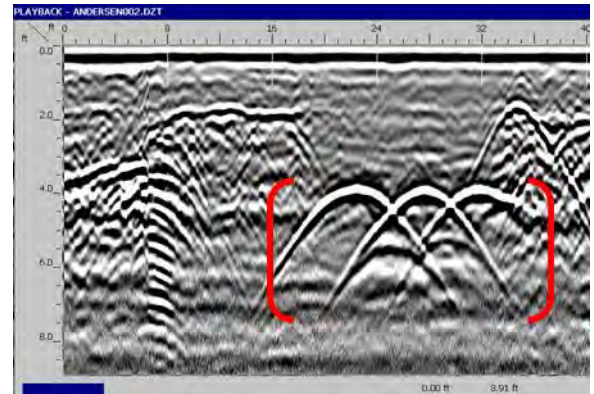
Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above-ground features, and utilization of services such as One Call/811. Depths are dependent on many factors so depth accuracy can vary throughout a site and should be treated as estimates only. Relevant scan examples were saved and will be provided in this report.

FINDINGS

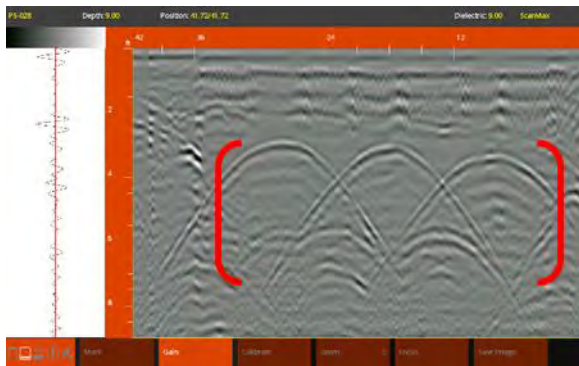
The subsurface conditions at the time of the scanning allowed for maximum GPR depth penetration of 4 feet beneath the surface in most areas. Multiple utilities were observed during the scanning; however, utility locating was not part of the scope of this project. The equipment and methods used did detect reactions from potential UST's in the first area where the client had knowledge of a known UST. The second area resulted in no detectable evidence of a potential UST. The following pages will provide further explanation of the findings.



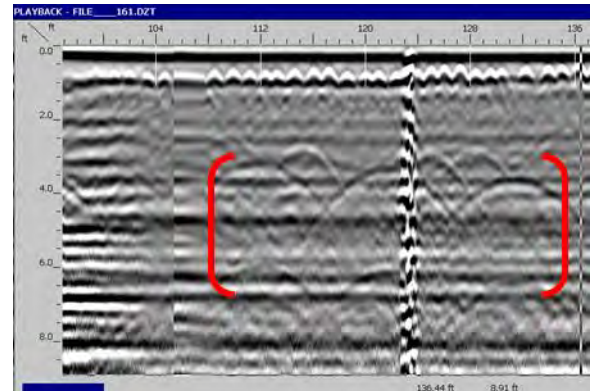
Sample GPR data screenshot showing a possible former tank pit or excavation. The change in the data from the excavation is apparent but GPR cannot determine whether this is due to a tank removal or whether tanks may still exist beyond the maximum depth of the GPR signal.



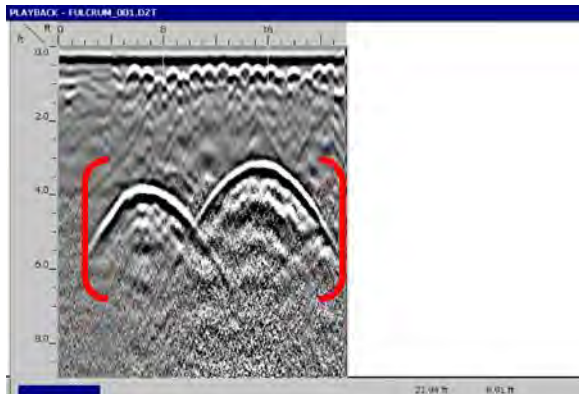
Sample GPR data screenshot showing three reactions from probable USTs. The diameters cannot be determined from these hyperbolas but they can be seen to be larger than a reaction from a typical utility.



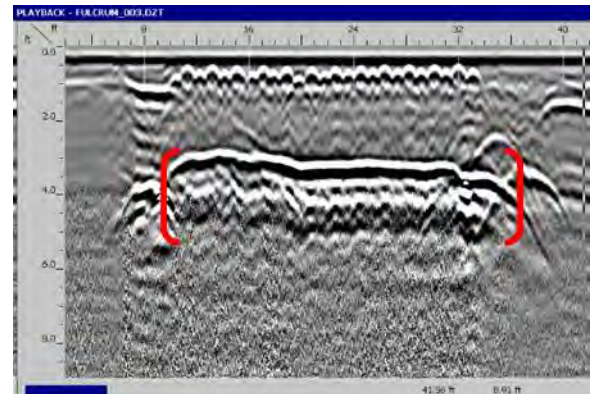
Sample GPR data screenshot showing three reactions from known USTs at an active fueling station. The concrete above the USTs is reinforced with wire mesh.



Sample GPR data screenshot showing three reactions from known USTs at an active fueling station. These USTs are non-metallic and therefore have a weaker reflection that is more difficult and sometimes impossible to identify in the GPR data.



Sample GPR data screenshot showing two potential USTs. These reactions are larger than a typical utility but large utilities can look identical to a UST.



Sample GPR data screenshot showing a scan collected parallel along the top one of the suspected USTs shown in the data to the left. A parallel scan is used to determine a clear beginning and end to the reaction to the reaction which is an indicator of a UST and to determine an approximate length.

Sample Data Screenshots.
(Not taken from this project)

Location:
previously collected from various sites



CLOSING

Following our investigation, we were able to locate and mark out a possible UST in the first client proposed area. We were unable to detect any evidence of a potential UST within the second client proposed area.

GPRS, Inc. has been in business since 2001, specializing in underground storage tank location, concrete scanning, utility locating, and shallow void detection for projects throughout the United States. I encourage you to visit our website (www.gprsinc.com) and contact any of the numerous references listed.

GPRS appreciates the opportunity to offer our services, and we look forward to continuing to work with you on future projects. Please feel free to contact us for additional information or with any questions you may have regarding this report.

Signed,

Matthew Caerulius
Project Manager—Northeast-Boston/ Upstate NY



Direct: (617)-655-4971
matthew.caerulius@gprsinc.com
www.gprsinc.com

Reviewed,

Eric Fish
Area Manager—Northeast-Boston/ Upstate NY



Direct: (401)-474-4505
eric.fish@gprsinc.com
www.gprsinc.com

APPENDIX C:

Tank Removal Permits & Waste Disposal Documents



Town of Walpole

Permit issued by Town Engineer
135 School Street
Walpole, Massachusetts 02081
Phone (508) 660-7211
FAX (508) 668-1594

Permit Number 2020-129

Date Issued 8/17/20

TRENCH PERMIT

Pursuant to G.L. c. 82A §1 and 520 CMR 7.00 et seq.(as amended)

THIS PERMIT MUST BE FULLY COMPLETED PRIOR TO CONSIDERATION

Name of Applicant <u>Dowling Corporation</u>		Phone <u>508-384-7617</u>		Cell <u>508-954-3222</u>	
Street Address <u>713 Dedham Street</u>					
City/Town <u>Wrentham</u>	MA	ZIP <u>02093</u>			
Name of Excavator (if different from applicant)			Phone		
Street Address <u>Same</u>			Cell <u>Same</u>		
City/Town	MA	ZIP			
Name of Owner(s) of Property <u>EMD Turnpike Realty Trust</u>			Phone		
Street Address <u>2210 Boston-Providence Turnpike</u> <u>Walpole, MA</u>			Cell		
City/Town <u>Walpole</u>	MA	ZIP			
Other Contact		Permit Fee Received No () Yes ()			
Description, location and purpose of proposed trench: Please describe the exact location of the proposed trench and its purpose (include a description of what is (or is intended) to be laid in proposed trench (eg; pipes/cable lines etc..)) Please use reverse side if additional space is needed. <u>Remove 1 2000 gallon Underground oil Tank and 1 275 gallon Above ground oil Tank</u>					
Insurance Certificate #: <u>WCMA 000021000</u>					
Name and Contact Information of Insurer: <u>Charles F. Murphy Insurance</u> <u>14 Starr Ave</u> <u>Branford, MA</u>					
Policy Expiration Date: <u>2-10-21</u>					
Dig Safe #: <u>2020 321 5762</u>					
Name of Competent Person (as defined by 520 CMR 7.02): <u>Patrick Dowling</u>					
Massachusetts Hoisting License # <u>142692</u>					
License Grade: <u>HE-2A EXCAVATOR</u>			Expiration Date: <u>3-17-22</u>		

BY SIGNING THIS FORM, THE APPLICANT, OWNER, AND EXCAVATOR ALL ACKNOWLEDGE AND CERTIFY THAT THEY ARE FAMILIAR WITH, OR, BEFORE COMMENCEMENT OF THE WORK, WILL BECOME FAMILIAR WITH, ALL LAWS AND REGULATIONS APPLICABLE TO WORK PROPOSED, INCLUDING OSHA REGULATIONS, G.L. c. 82A, 520 CMR 7.00 et seq., AND ANY APPLICABLE MUNICIPAL ORDINANCES, BY-LAWS AND REGULATIONS AND THEY COVENANT AND AGREE THAT ALL WORK DONE UNDER THE PERMIT ISSUED FOR SUCH WORK WILL COMPLY THEREWITH IN ALL RESPECTS AND WITH THE CONDITIONS SET FORTH BELOW.

THE UNDERSIGNED OWNER AUTHORIZES THE APPLICANT TO APPLY FOR THE PERMIT AND THE EXCAVATOR TO UNDERTAKE SUCH WORK ON THE PROPERTY OF THE OWNER, AND ALSO, FOR THE DURATION OF CONSTRUCTION, AUTHORIZES PERSONS DULY APPOINTED BY THE MUNICIPALITY TO ENTER UPON THE PROPERTY TO MONITOR AND INSPECT THE WORK FOR CONFORMITY WITH THE CONDITIONS ATTACHED HERETO AND THE LAWS AND REGULATIONS GOVERNING SUCH WORK.

THE UNDERSIGNED APPLICANT, OWNER AND EXCAVATOR AGREE JOINTLY AND SEVERALLY TO REIMBURSE THE MUNICIPALITY FOR ANY AND ALL COSTS AND EXPENSES INCURRED BY THE MUNICIPALITY IN CONNECTION WITH THIS PERMIT AND THE WORK CONDUCTED THEREUNDER, INCLUDING BUT NOT LIMITED TO ENFORCING THE REQUIREMENTS OF STATE LAW AND CONDITIONS OF THIS PERMIT, INSPECTIONS MADE TO ASSURE COMPLIANCE THEREWITH, AND MEASURES TAKEN BY THE MUNICIPALITY TO PROTECT THE PUBLIC WHERE THE APPLICANT OWNER OR EXCAVATOR HAS FAILED TO COMPLY THEREWITH INCLUDING POLICE DETAILS AND OTHER REMEDIAL MEASURES DEEMED NECESSARY BY THE MUNICIPALITY.

THE UNDERSIGNED APPLICANT, OWNER AND EXCAVATOR AGREE JOINTLY AND SEVERALLY TO DEFEND, INDEMNIFY, AND HOLD HARMLESS THE MUNICIPALITY AND ALL OF ITS AGENTS AND EMPLOYEES FROM ANY AND ALL LIABILITY, CAUSES OR ACTION, COSTS, AND EXPENSES RESULTING FROM OR ARISING OUT OF ANY INJURY, DEATH, LOSS, OR DAMAGE TO ANY PERSON OR PROPERTY DURING THE WORK CONDUCTED UNDER THIS PERMIT.

APPLICANT SIGNATURE

Edw J. Martin

DATE

8-12-20

EXCAVATOR SIGNATURE (IF DIFFERENT)

N/A

DATE

N/A

For City/Town use – Do not write in this section

PERMIT APPROVED BY	C. JOHNSON	Date	\$ <u>75</u> Application Fee
PERMITTING AUTHORITY			
CONDITIONS OF APPROVAL			
			35210
			53-7203/2113

Make application to local fire department.
Fire department retains original application and issues duplicate as permit.



The Commonwealth of Massachusetts
Department of Fire Services – Office of the State Fire Marshal

APPLICATION and PERMIT

Fee: 100.00

for steel underground storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 148, Section 38, 527 CMR 1.00 Section 1.12.8.40, application is hereby made by:

Tank Owner

Tank Owner Name (please print) EMD Turnpike Realty Trust x N/A
Signature (if applying for permit)
Address 3 Spruce Pond Road Franklin MA 02038
Street City State Zip

Removal Contractor

Company Name Dowling Corporation
Print
Address 713 Dedham St. Wrentham
Print
Signature (if applying for permit)
[Signature]
IFCI* Certified ☐ Other ☐

Contamination Assessment

Co. or Individual HA Holdings LLC
Print
Address 60 Brooks Dr Brewster Mass
Print
Signature (if applying for permit)
[Signature]
IFCI* Certified ☐ LSP # Yes Other ☐

Tank Information

Tank Location 2210 Boston Providence Highway (RT 1) Walpole, MA
Street Address City
Tank Capacity (gallons) 750 275 gallon Substance Last Stored Fuel oil
Tank Dimensions (diameter x length) 60" Long x 44" high x 27" wide 60 x 5' long
Remarks: Disconnect Tank, Pump, clean, Remove and
Dispose of Tank

Disposal Information

Firm Transporting Waste US Ecology State Lic. # MA 71
Hazardous Waste Manifest# _____ E.P.A. # MA 084 148 136
Approved Tank Disposal Yard Allied Recycling Tank Yard # 0015
Type of Inert Gas CO2 Tank Yard Address 1901 Main St. Walpole, MA

Approvals

City or Town Walpole FDID# _____ Permit# _____
Date of Issue August 21, 2020 Date of Expiration None
Dig Safe approval number: 2020 321 5742 Trenching Permit # 2020-129
Dig Safe Toll Free Tel. Number - 800-322-4844
Signature / Title of Officer granting permit Paul Pinto Captain

*International Fire Code Institute




The Commonwealth of Massachusetts
Department of Fire Services – Office of the State Fire Marshal



**RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK
FORMERLY CONTAINING FLAMMABLE LIQUIDS**

NAME AND ADDRESS OF APPROVED TANK YARD:

 **Allied Recycling Center, Inc.**
1901 Main Street
Walpole, MA 02081

Approved Tank Yard Number: 0015

Tank Yard Ledger Number (527 CMR 1.00:66.21.7.8.2): 20200173

I certify under penalty of law that I have personally examined the underground steel storage tank delivered to this "approved tank yard" by (firm, corporation or partnership) Dowling and accepted same in conformance with 527 CMR 1.00:66.21.7.7 Provisions for Approving Underground Steel Storage Tank Dismantling Yards. A valid permit was issued by the head of the **LOCAL** fire department FDID# _____

to transport this tank to this yard.

Name and official title of approved tank yard owner or owners, authorized representative:

Signature: [Signature] Title: Scale Date signed: 8/25/20

TANK DATA:	TANK REMOVED FROM:
Gallons: <u>750</u>	No. and Street: <u>2210 Bosworth</u>
Previous contents: <u>Fuel Oil</u>	City and Town: <u>Walpole, MA</u>
Diameter: <u>60" dia</u>	Fire Dept. Permit #: _____
Length: <u>5' Long</u>	Notes: _____
Date Received: _____	_____
Serial # (if available): <u>N/A</u>	_____
Tank I.D. # (Form FP-290): _____	_____

EACH TANK MUST HAVE A RECEIPT OF DISPOSAL

Owner/Operator is responsible for notifying the Department of Environmental Protection:

Department of Environmental Protection
Bureau of Waste Prevention - UST Program
Boston, MA 02112

This signed receipt of disposal must be returned to the head of the local fire department.

Please print or type.

Form Approved. OMB No. 2050-003

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAR 000 583 971		2. Page 1 of 1	3. Emergency Response Phone (800) 839-3975		4. Manifest Tracking Number 021411760 JJK		
		5. Generator's Name and Mailing Address EMD TURNPIKE REALTY TRUST 3 SPRUCE POND ROAD ATTN: JEANNE FAGAN FRANKLIN, MA 02038				Generator's Site Address (if different than mailing address) 2210 BOSTON PROVIDENCE HWY WALPOLE, MA 02081			
		6. Transporter 1 Company Name NRC EAST ENVIRONMENTAL SERVICES, INC.				U.S. EPA ID Number MAC 300 098 399			
		7. Transporter 2 Company Name				U.S. EPA ID Number			
		8. Designated Facility Name and Site Address TRADEBE T&R OF STOUGHTON, LLC 441 REAR CANTON STREET STOUGHTON, MA 02072				U.S. EPA ID Number MAD 062 179 890			
		Facility's Phone: (781) 297-3530							

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes		
		No.	Type					
	1. State Regulated Oil Waste, Not DOT Regulated, None, None, None	001	TT	70	G	MA98		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. 0717LH, / (L) #2 HEATING OIL / WO# 11217600

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offor's Printed/Typed Name: Janet Mastromatteo Signature: Janet Mastromatteo Month: 18 Day: 21 Year: 20

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ARTHUR HANSEN Signature: A. HANSEN Month: 8 Day: 21 Year: 20

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: 9 Day: 21 Year: 20

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. _____ 2. _____ 3. _____ 4. _____

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Robert Conno Signature: _____ Month: 08 Day: 21 Year: 21

APPENDIX D:

Laboratory Certificates of Analysis

August 31, 2020

Brian Butler
Goldman Environmental
60 Brooks Drive
Braintree, MA 02184

Project Location: MA
Client Job Number:
Project Number: 1936-0030
Laboratory Work Order Number: 20H1253

Enclosed are results of analyses for samples received by the laboratory on August 25, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "R J McCarthy", is displayed on a light gray rectangular background.

Raymond J. McCarthy
Project Manager

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

Goldman Environmental
60 Brooks Drive
Braintree, MA 02184
ATTN: Brian Butler

REPORT DATE: 8/31/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1936-0030

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20H1253

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
South & East Sidewall	20H1253-01	Soil		MADEP EPH rev 2.1 SM 2540G	
South & East Sidewall	20H1253-02	Soil		MADEP-VPH-Feb 2018 Rev 2.1 SM 2540G	
North & West	20H1253-03	Soil		MADEP EPH rev 2.1 SM 2540G	
North & West	20H1253-04	Soil		MADEP-VPH-Feb 2018 Rev 2.1 SM 2540G	
Bottom	20H1253-05	Soil		MADEP EPH rev 2.1 SM 2540G	
Bottom	20H1253-06	Soil		MADEP-VPH-Feb 2018 Rev 2.1 SM 2540G	

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CASE NARRATIVE SUMMARY

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

MADEP-VPH-Feb 2018 Rev 2.1

Qualifications:

O-01

Soil/methanol ratio does not meet method specifications. Excess amount of soil. Sample was completely covered with methanol, but with less than the method-specified amount.

Analyte & Samples(s) Qualified:

20H1253-04[North & West], 20H1253-06[Bottom]

MADEP-VPH-Feb 2018 Rev 2.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

Analytical column used for VPH analysis is Restek, Rtx-502.2, 105meter, 0.53mmID, 3um df. Trap used for VPH analysis is CarboSieveS-III.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

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

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Technical Representative

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

Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: South & East Sidewall

Sampled: 8/21/2020 09:40

Sample ID: 20H1253-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Chrysene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Fluorene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 16:03	RDD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Chlorooctadecane (COD)	66.1	40-140							
o-Terphenyl (OTP)	72.5	40-140							
2-Bromonaphthalene	87.5	40-140							
2-Fluorobiphenyl	93.6	40-140							

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

Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: South & East Sidewall

Sampled: 8/21/2020 09:40

Sample ID: 20H1253-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	8/27/20	8/27/20 20:51	CAH

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

Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: South & East Sidewall

Sampled: 8/21/2020 09:50

Sample ID: 20H1253-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.92

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
C5-C8 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
Unadjusted C9-C12 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
C9-C12 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
C9-C10 Aromatics	ND	12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
Benzene	ND	0.059	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
Ethylbenzene	ND	0.059	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.059	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
Naphthalene	ND	0.29	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
Toluene	ND	0.059	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
m+p Xylene	ND	0.12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
o-Xylene	ND	0.059	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 14:52	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2,5-Dibromotoluene (FID)	107	70-130							
2,5-Dibromotoluene (PID)	111	70-130							

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Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: South & East Sidewall

Sampled: 8/21/2020 09:50

Sample ID: 20H1253-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.8		% Wt	1		SM 2540G	8/27/20	8/27/20 20:51	CAH

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Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: North & West

Sampled: 8/21/2020 10:30

Sample ID: 20H1253-03

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Anthracene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Chrysene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Fluorene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD
Pyrene	ND	0.10	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/29/20 17:01	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Chlorooctadecane (COD)	63.9	40-140	
o-Terphenyl (OTP)	67.8	40-140	
2-Bromonaphthalene	82.6	40-140	
2-Fluorobiphenyl	87.7	40-140	

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

Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: North & West

Sampled: 8/21/2020 10:30

Sample ID: 20H1253-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	8/27/20	8/27/20 20:51	CAH

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

Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: North & West

Sampled: 8/21/2020 10:35

Sample ID: 20H1253-04

Sample Matrix: Soil

Sample Flags: O-01

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.30

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	8.5	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
C5-C8 Aliphatics	ND	8.5	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
Unadjusted C9-C12 Aliphatics	ND	8.5	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
C9-C12 Aliphatics	ND	8.5	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
C9-C10 Aromatics	ND	8.5	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
Benzene	ND	0.043	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
Ethylbenzene	ND	0.043	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.043	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
Naphthalene	ND	0.21	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
Toluene	ND	0.043	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
m+p Xylene	ND	0.085	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
o-Xylene	ND	0.043	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:22	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2,5-Dibromotoluene (FID)	75.7	70-130						8/26/20 15:22	
2,5-Dibromotoluene (PID)	79.1	70-130						8/26/20 15:22	

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

Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: North & West

Sampled: 8/21/2020 10:35

Sample ID: 20H1253-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	8/27/20	8/27/20 20:51	CAH

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

Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: Bottom

Sampled: 8/21/2020 11:20

Sample ID: 20H1253-05

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Chrysene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Fluorene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD
Pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	8/27/20	8/31/20 0:17	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Chlorooctadecane (COD)	60.7	40-140	
o-Terphenyl (OTP)	64.8	40-140	
2-Bromonaphthalene	75.8	40-140	
2-Fluorobiphenyl	77.5	40-140	

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

Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: Bottom

Sampled: 8/21/2020 11:20

Sample ID: 20H1253-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	8/27/20	8/27/20 20:52	CAH

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

Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: Bottom

Sampled: 8/21/2020 11:25

Sample ID: 20H1253-06

Sample Matrix: Soil

Sample Flags: O-01

Petrolium Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.51

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	8.2	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
C5-C8 Aliphatics	ND	8.2	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
Unadjusted C9-C12 Aliphatics	ND	8.2	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
C9-C12 Aliphatics	ND	8.2	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
C9-C10 Aromatics	ND	8.2	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
Benzene	ND	0.041	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
Ethylbenzene	ND	0.041	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.041	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
Naphthalene	ND	0.21	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
Toluene	ND	0.041	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
m+p Xylene	ND	0.082	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
o-Xylene	ND	0.041	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	8/26/20	8/26/20 15:51	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2,5-Dibromotoluene (FID)	75.4	70-130							
2,5-Dibromotoluene (PID)	86.7	70-130							

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

Project Location: MA

Sample Description:

Work Order: 20H1253

Date Received: 8/25/2020

Field Sample #: Bottom

Sampled: 8/21/2020 11:25

Sample ID: 20H1253-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	8/27/20	8/27/20 20:52	CAH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method: SW-846 3546 Analytical Method: MADEP EPH rev 2.1**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20H1253-01 [South & East Sidewall]	B265214	20.0	2.00	08/27/20
20H1253-03 [North & West]	B265214	20.0	2.00	08/27/20
20H1253-05 [Bottom]	B265214	20.0	2.00	08/27/20

Prep Method: MA VPH Analytical Method: MADEP-VPH-Feb 2018 Rev 2.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20H1253-02 [South & East Sidewall]	B265134	9.20	10.4	08/26/20
20H1253-04 [North & West]	B265134	13.0	10.6	08/26/20
20H1253-06 [Bottom]	B265134	15.1	11.3	08/26/20

Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
20H1253-01 [South & East Sidewall]	B265278	08/27/20
20H1253-02 [South & East Sidewall]	B265278	08/27/20
20H1253-03 [North & West]	B265278	08/27/20
20H1253-04 [North & West]	B265278	08/27/20
20H1253-05 [Bottom]	B265278	08/27/20
20H1253-06 [Bottom]	B265278	08/27/20

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

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B265214 - SW-846 3546
Blank (B265214-BLK1)

Prepared: 08/27/20 Analyzed: 08/29/20

C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	3.24		mg/Kg wet	5.00		64.8	40-140			
Surrogate: o-Terphenyl (OTP)	3.45		mg/Kg wet	5.00		69.1	40-140			
Surrogate: 2-Bromonaphthalene	4.12		mg/Kg wet	5.00		82.4	40-140			
Surrogate: 2-Fluorobiphenyl	4.40		mg/Kg wet	5.00		88.1	40-140			

LCS (B265214-BS1)

Prepared: 08/27/20 Analyzed: 08/29/20

C9-C18 Aliphatics	15.4	10	mg/Kg wet	30.0		51.2	40-140			
C19-C36 Aliphatics	33.2	10	mg/Kg wet	40.0		83.0	40-140			
Unadjusted C11-C22 Aromatics	67.7	10	mg/Kg wet	85.0		79.7	40-140			
Acenaphthene	2.72	0.10	mg/Kg wet	5.00		54.5	40-140			
Acenaphthylene	2.54	0.10	mg/Kg wet	5.00		50.8	40-140			
Anthracene	3.73	0.10	mg/Kg wet	5.00		74.7	40-140			
Benzo(a)anthracene	4.41	0.10	mg/Kg wet	5.00		88.3	40-140			
Benzo(a)pyrene	4.35	0.10	mg/Kg wet	5.00		87.1	40-140			
Benzo(b)fluoranthene	4.79	0.10	mg/Kg wet	5.00		95.8	40-140			
Benzo(g,h,i)perylene	4.12	0.10	mg/Kg wet	5.00		82.4	40-140			
Benzo(k)fluoranthene	3.60	0.10	mg/Kg wet	5.00		72.1	40-140			
Chrysene	4.19	0.10	mg/Kg wet	5.00		83.8	40-140			
Dibenz(a,h)anthracene	4.41	0.10	mg/Kg wet	5.00		88.2	40-140			
Fluoranthene	4.11	0.10	mg/Kg wet	5.00		82.2	40-140			
Fluorene	2.97	0.10	mg/Kg wet	5.00		59.4	40-140			
Indeno(1,2,3-cd)pyrene	4.19	0.10	mg/Kg wet	5.00		83.8	40-140			
2-Methylnaphthalene	2.63	0.10	mg/Kg wet	5.00		52.6	40-140			
Naphthalene	2.68	0.10	mg/Kg wet	5.00		53.6	40-140			
Phenanthrene	3.61	0.10	mg/Kg wet	5.00		72.3	40-140			
Pyrene	4.18	0.10	mg/Kg wet	5.00		83.6	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	3.58		mg/Kg wet	5.00		71.7	40-140			

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

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B265214 - SW-846 3546
LCS (B265214-BS1)

Prepared: 08/27/20 Analyzed: 08/29/20

Surrogate: o-Terphenyl (OTP)	3.63		mg/Kg wet	5.00		72.6	40-140			
Surrogate: 2-Bromonaphthalene	4.16		mg/Kg wet	5.00		83.2	40-140			
Surrogate: 2-Fluorobiphenyl	4.49		mg/Kg wet	5.00		89.8	40-140			

LCS Dup (B265214-BSD1)

Prepared: 08/27/20 Analyzed: 08/29/20

C9-C18 Aliphatics	15.8	10	mg/Kg wet	30.0		52.6	40-140	2.52	25	
C19-C36 Aliphatics	32.4	10	mg/Kg wet	40.0		81.0	40-140	2.41	25	
Unadjusted C11-C22 Aromatics	64.1	10	mg/Kg wet	85.0		75.4	40-140	5.59	25	
Acenaphthene	2.80	0.10	mg/Kg wet	5.00		56.0	40-140	2.85	25	
Acenaphthylene	2.63	0.10	mg/Kg wet	5.00		52.7	40-140	3.51	25	
Anthracene	3.56	0.10	mg/Kg wet	5.00		71.1	40-140	4.86	25	
Benzo(a)anthracene	4.12	0.10	mg/Kg wet	5.00		82.3	40-140	7.00	25	
Benzo(a)pyrene	4.00	0.10	mg/Kg wet	5.00		80.0	40-140	8.44	25	
Benzo(b)fluoranthene	4.47	0.10	mg/Kg wet	5.00		89.4	40-140	6.91	25	
Benzo(g,h,i)perylene	3.72	0.10	mg/Kg wet	5.00		74.5	40-140	10.0	25	
Benzo(k)fluoranthene	3.30	0.10	mg/Kg wet	5.00		65.9	40-140	8.95	25	
Chrysene	3.85	0.10	mg/Kg wet	5.00		77.0	40-140	8.46	25	
Dibenz(a,h)anthracene	3.98	0.10	mg/Kg wet	5.00		79.6	40-140	10.3	25	
Fluoranthene	3.93	0.10	mg/Kg wet	5.00		78.6	40-140	4.56	25	
Fluorene	2.98	0.10	mg/Kg wet	5.00		59.6	40-140	0.202	25	
Indeno(1,2,3-cd)pyrene	3.85	0.10	mg/Kg wet	5.00		77.0	40-140	8.48	25	
2-Methylnaphthalene	2.64	0.10	mg/Kg wet	5.00		52.9	40-140	0.504	25	
Naphthalene	2.59	0.10	mg/Kg wet	5.00		51.8	40-140	3.40	25	
Phenanthrene	3.53	0.10	mg/Kg wet	5.00		70.5	40-140	2.42	25	
Pyrene	4.00	0.10	mg/Kg wet	5.00		80.0	40-140	4.35	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			

Surrogate: Chlorooctadecane (COD)	3.51		mg/Kg wet	5.00		70.3	40-140			
Surrogate: o-Terphenyl (OTP)	3.49		mg/Kg wet	5.00		69.9	40-140			
Surrogate: 2-Bromonaphthalene	4.18		mg/Kg wet	5.00		83.7	40-140			
Surrogate: 2-Fluorobiphenyl	4.47		mg/Kg wet	5.00		89.3	40-140			

Matrix Spike (B265214-MS1)

Source: 20H1253-01

Prepared: 08/27/20 Analyzed: 08/29/20

C9-C18 Aliphatics	16.9	11	mg/Kg dry	31.5	2.21	46.7	40-140			
C19-C36 Aliphatics	31.7	11	mg/Kg dry	42.0	2.60	69.2	40-140			
Unadjusted C11-C22 Aromatics	71.5	11	mg/Kg dry	89.3	3.73	75.9	40-140			
Acenaphthene	3.28	0.11	mg/Kg dry	5.25	ND	62.6	40-140			
Acenaphthylene	3.09	0.11	mg/Kg dry	5.25	ND	58.8	40-140			
Anthracene	3.84	0.11	mg/Kg dry	5.25	ND	73.1	40-140			
Benzo(a)anthracene	4.52	0.11	mg/Kg dry	5.25	ND	86.1	40-140			
Benzo(a)pyrene	4.44	0.11	mg/Kg dry	5.25	ND	84.6	40-140			
Benzo(b)fluoranthene	4.94	0.11	mg/Kg dry	5.25	ND	94.0	40-140			
Benzo(g,h,i)perylene	4.22	0.11	mg/Kg dry	5.25	ND	80.3	40-140			
Benzo(k)fluoranthene	3.63	0.11	mg/Kg dry	5.25	ND	69.2	40-140			
Chrysene	4.20	0.11	mg/Kg dry	5.25	ND	80.0	40-140			
Dibenz(a,h)anthracene	4.40	0.11	mg/Kg dry	5.25	ND	83.8	40-140			
Fluoranthene	4.33	0.11	mg/Kg dry	5.25	ND	82.5	40-140			
Fluorene	3.41	0.11	mg/Kg dry	5.25	ND	65.0	40-140			
Indeno(1,2,3-cd)pyrene	4.25	0.11	mg/Kg dry	5.25	ND	80.9	40-140			
2-Methylnaphthalene	3.04	0.11	mg/Kg dry	5.25	ND	57.8	40-140			
Naphthalene	2.89	0.11	mg/Kg dry	5.25	ND	55.0	40-140			
Phenanthrene	3.92	0.11	mg/Kg dry	5.25	ND	74.6	40-140			

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

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B265214 - SW-846 3546
Matrix Spike (B265214-MS1)
Source: 20H1253-01

Prepared: 08/27/20 Analyzed: 08/29/20

Pyrene	4.40	0.11	mg/Kg dry	5.25	ND	83.8	40-140			
Surrogate: Chlorooctadecane (COD)	3.38		mg/Kg dry	5.25		64.4	40-140			
Surrogate: o-Terphenyl (OTP)	3.80		mg/Kg dry	5.25		72.4	40-140			
Surrogate: 2-Bromonaphthalene	4.61		mg/Kg dry	5.25		87.8	40-140			
Surrogate: 2-Fluorobiphenyl	5.00		mg/Kg dry	5.25		95.3	40-140			

Matrix Spike Dup (B265214-MSD1)
Source: 20H1253-01

Prepared: 08/27/20 Analyzed: 08/29/20

C9-C18 Aliphatics	18.5	11	mg/Kg dry	31.5	2.21	51.8	40-140	9.07	50	
C19-C36 Aliphatics	36.9	11	mg/Kg dry	42.0	2.60	81.8	40-140	15.4	50	
Unadjusted C11-C22 Aromatics	76.7	11	mg/Kg dry	89.3	3.73	81.8	40-140	7.07	50	
Acenaphthene	3.36	0.11	mg/Kg dry	5.25	ND	64.1	40-140	2.35	50	
Acenaphthylene	3.13	0.11	mg/Kg dry	5.25	ND	59.6	40-140	1.38	50	
Anthracene	4.32	0.11	mg/Kg dry	5.25	ND	82.3	40-140	11.8	50	
Benzo(a)anthracene	4.93	0.11	mg/Kg dry	5.25	ND	94.0	40-140	8.71	50	
Benzo(a)pyrene	4.89	0.11	mg/Kg dry	5.25	ND	93.1	40-140	9.54	50	
Benzo(b)fluoranthene	5.38	0.11	mg/Kg dry	5.25	ND	103	40-140	8.69	50	
Benzo(g,h,i)perylene	4.70	0.11	mg/Kg dry	5.25	ND	89.4	40-140	10.8	50	
Benzo(k)fluoranthene	4.00	0.11	mg/Kg dry	5.25	ND	76.2	40-140	9.64	50	
Chrysene	4.63	0.11	mg/Kg dry	5.25	ND	88.1	40-140	9.68	50	
Dibenz(a,h)anthracene	4.88	0.11	mg/Kg dry	5.25	ND	92.9	40-140	10.3	50	
Fluoranthene	4.71	0.11	mg/Kg dry	5.25	ND	89.7	40-140	8.37	50	
Fluorene	3.65	0.11	mg/Kg dry	5.25	ND	69.4	40-140	6.67	50	
Indeno(1,2,3-cd)pyrene	4.67	0.11	mg/Kg dry	5.25	ND	89.0	40-140	9.55	50	
2-Methylnaphthalene	2.95	0.11	mg/Kg dry	5.25	ND	56.2	40-140	2.82	50	
Naphthalene	2.74	0.11	mg/Kg dry	5.25	ND	52.1	40-140	5.34	50	
Phenanthrene	4.35	0.11	mg/Kg dry	5.25	ND	82.9	40-140	10.5	50	
Pyrene	4.77	0.11	mg/Kg dry	5.25	ND	90.9	40-140	8.21	50	
Surrogate: Chlorooctadecane (COD)	3.93		mg/Kg dry	5.25		74.8	40-140			
Surrogate: o-Terphenyl (OTP)	4.18		mg/Kg dry	5.25		79.7	40-140			
Surrogate: 2-Bromonaphthalene	4.47		mg/Kg dry	5.25		85.2	40-140			
Surrogate: 2-Fluorobiphenyl	4.81		mg/Kg dry	5.25		91.7	40-140			

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QUALITY CONTROL
Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B265134 - MA VPH
Blank (B265134-BLK1)

Prepared & Analyzed: 08/26/20

Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Butylcyclohexane	ND	0.050	mg/Kg wet							
Decane	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
2-Methylpentane	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Nonane	ND	0.050	mg/Kg wet							
Pentane	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
2,2,4-Trimethylpentane	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	34.0		µg/L	40.0		85.1	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	35.3		µg/L	40.0		88.2	70-130			

LCS (B265134-BS1)

Prepared & Analyzed: 08/26/20

Benzene	0.0491	0.0010	mg/Kg wet	0.0500		98.2	70-130			
Butylcyclohexane	0.0565	0.0010	mg/Kg wet	0.0500		113	70-130			
Decane	0.0448	0.0010	mg/Kg wet	0.0500		89.6	70-130			
Ethylbenzene	0.0491	0.0010	mg/Kg wet	0.0500		98.2	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0475	0.0010	mg/Kg wet	0.0500		95.1	70-130			
2-Methylpentane	0.0500	0.0010	mg/Kg wet	0.0500		100	70-130			
Naphthalene	0.0411	0.0050	mg/Kg wet	0.0500		82.3	70-130			
Nonane	0.0544	0.0010	mg/Kg wet	0.0500		109	30-130			
Pentane	0.0517	0.0010	mg/Kg wet	0.0500		103	70-130			
Toluene	0.0489	0.0010	mg/Kg wet	0.0500		97.8	70-130			
1,2,4-Trimethylbenzene	0.0478	0.0010	mg/Kg wet	0.0500		95.6	70-130			
2,2,4-Trimethylpentane	0.0459	0.0010	mg/Kg wet	0.0500		91.8	70-130			
m+p Xylene	0.0993	0.0020	mg/Kg wet	0.100		99.3	70-130			
o-Xylene	0.0497	0.0010	mg/Kg wet	0.0500		99.3	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	36.6		µg/L	40.0		91.4	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	40.3		µg/L	40.0		101	70-130			

LCS Dup (B265134-BS1)

Prepared & Analyzed: 08/26/20

Benzene	0.0503	0.0010	mg/Kg wet	0.0500		101	70-130	2.40	25	
Butylcyclohexane	0.0558	0.0010	mg/Kg wet	0.0500		112	70-130	1.24	25	
Decane	0.0446	0.0010	mg/Kg wet	0.0500		89.2	70-130	0.485	25	
Ethylbenzene	0.0502	0.0010	mg/Kg wet	0.0500		100	70-130	2.23	25	
Methyl tert-Butyl Ether (MTBE)	0.0478	0.0010	mg/Kg wet	0.0500		95.6	70-130	0.497	25	
2-Methylpentane	0.0501	0.0010	mg/Kg wet	0.0500		100	70-130	0.190	25	
Naphthalene	0.0416	0.0050	mg/Kg wet	0.0500		83.2	70-130	1.09	25	
Nonane	0.0543	0.0010	mg/Kg wet	0.0500		109	30-130	0.156	25	
Pentane	0.0524	0.0010	mg/Kg wet	0.0500		105	70-130	1.46	25	
Toluene	0.0499	0.0010	mg/Kg wet	0.0500		99.8	70-130	2.04	25	
1,2,4-Trimethylbenzene	0.0487	0.0010	mg/Kg wet	0.0500		97.4	70-130	1.82	25	

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QUALITY CONTROL
Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B265134 - MA VPH
LCS Dup (B265134-BSD1)

Prepared & Analyzed: 08/26/20

2,2,4-Trimethylpentane	0.0459	0.0010	mg/Kg wet	0.0500		91.7	70-130	0.0763	25	
m+p Xylene	0.102	0.0020	mg/Kg wet	0.100		102	70-130	2.39	25	
o-Xylene	0.0506	0.0010	mg/Kg wet	0.0500		101	70-130	1.86	25	
Surrogate: 2,5-Dibromotoluene (FID)	40.0		µg/L	40.0		99.9	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	41.6		µg/L	40.0		104	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
O-01	Soil/methanol ratio does not meet method specifications. Excess amount of soil. Sample was completely covered with methanol, but with less than the method-specified amount.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>MADEP EPH rev 2.1 in Soil</i>	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
<i>MADEP EPH rev 2.1 in Water</i>	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
<i>MADEP-VPH-Feb 2018 Rev 2.1 in Soil</i>	
Unadjusted C5-C8 Aliphatics	CT,NC,ME,NH-P
C5-C8 Aliphatics	CT,NC,ME,NH-P

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
MADEP-VPH-Feb 2018 Rev 2.1 in Soil	
Unadjusted C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C10 Aromatics	CT,NC,ME,NH-P
Benzene	CT,NC,ME,NH-P
Ethylbenzene	CT,NC,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,ME,NH-P
Naphthalene	CT,NC,ME,NH-P
Toluene	CT,NC,ME,NH-P
m+p Xylene	CT,NC,ME,NH-P
o-Xylene	CT,NC,ME,NH-P

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2021
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	10/1/2020

20H1253


 con-test
ANALYTICAL LABORATORY

 Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

 Company Name: CEL
Address: 60 Brooks

 Phone: 781-356-7060
Project Name: 1936-0030

Project Location:

Project Number:

Project Manager:

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By:

 Client Sample ID / Description: 1 South 3 East Samuel

 Beginning Date/Time: 8/21

 Ending Date/Time: 9:40

 Matrix Code: S

 CONP/GRAB: Grab

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 1

 Client Sample ID / Description: 2 "

 Beginning Date/Time: 10:30

 Ending Date/Time: 10:35

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 3

 Client Sample ID / Description: 4 "

 Beginning Date/Time: 11:20

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 5

 Client Sample ID / Description: 6 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 6

 Client Sample ID / Description: 7 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 7

 Client Sample ID / Description: 8 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 8

 Client Sample ID / Description: 9 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 9

 Client Sample ID / Description: 10 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 10

 Client Sample ID / Description: 11 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 11

 Client Sample ID / Description: 12 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 12

 Client Sample ID / Description: 13 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 13

 Client Sample ID / Description: 14 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 14

 Client Sample ID / Description: 15 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 15

 Client Sample ID / Description: 16 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 16

 Client Sample ID / Description: 17 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 17

 Client Sample ID / Description: 18 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 18

 Client Sample ID / Description: 19 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 19

 Client Sample ID / Description: 20 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 20

 Client Sample ID / Description: 21 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 21

 Client Sample ID / Description: 22 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 22

 Client Sample ID / Description: 23 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 23

 Client Sample ID / Description: 24 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

 Con-Test Work Order#: 24

 Client Sample ID / Description: 25 "

 Beginning Date/Time: 11:25

 Ending Date/Time: 11:25

 Matrix Code: C

 CONP/GRAB: C

 VIALS: 3

 GLASS: 1

 PLASTIC: 1

 BACTERIA: 1

 ENCORE: 1

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client EEC

Received By CA

Date 8/25/20

Time 1700

How were the samples received?

In Cooler T

No Cooler

On Ice T

No Ice

Direct from Sampling

Ambient

Melted Ice

Were samples within Temperature? 2-6°C T

By Gun # 4

Actual Temp - 2.0

By Blank #

Actual Temp -

Was Custody Seal Intact? NA

Were Samples Tampered with? NA

Was COC Relinquished? +

Does Chain Agree With Samples? +

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? NA ECR 8/25/20

Were samples received within holding time? T

Did COC include all Client +

Analysis T

Sampler Name T

pertinent Information? Project F

ID's +

Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? +

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified?

Who was notified?

Who was notified?

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid

Base

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	3
Meoh-	3	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	3
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Only recieved 1 vial per set which were methanol, missing 6 vials
Went by analysis on sample containers, as none were checked off on COC.

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 20H1253
Project Location: MA	RTN:

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

20H1253-01 thru 20H1253-06

Matrices: Soil

CAM Protocol (check all that below)

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

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

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

Signature: <u>Lisa Worthington</u>	Position: <u>Technical Representative</u>
Printed Name: <u>Lisa A. Worthington</u>	Date: <u>08/31/20</u>

APPENDIX E:

MassDEP UST Forms



Massachusetts Department of Environmental Protection
Bureau of Air & Waste
Underground Storage Tank (UST) Program
UST1 – Cover Sheet/Certification

UST Facility _____

UST Facility ID # _____

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Notes:

- If this is a new facility registration, MassDEP will provide you with a Facility Account Number

- A New Facility must be registered within 30 days of the tank(s) receiving regulated product.

- A New Owner must be registered within 30 days of taking ownership.

Check the appropriate category(s). Complete and attach ONLY the required forms.

Register a New Facility and/or Owner

- ☐ UST2–Owner/Operator & Facility Registration Attached
- ☐ UST3–Financial Responsibility Registration Attached
- ☐ UST4–Tank, Piping & Component Registration Attached

Register a UST System Removal/Closure & Assessment

- ☒ UST 6–UST System Removal/Closure in Place Attached

Update Existing Owner/Operator/Facility Information (Not a New Owner)

- ☐ UST2–Owner/Operator/Facility Registration Attached

Register a New UST System & Components

- ☐ UST4–Tank, Piping & Component Registration Attached

Update Financial Responsibility Information

- ☐ UST3–Financial Responsibility Registration Attached

Register a Change of Tank Status/Product

- ☐ UST5–Change of Tank Status/Product Attached

Update Existing UST System/Component Information

- ☐ UST4–Tank, Piping & Component Registration Attached

A. Legal Owner Of UST(s)

EMD Turnpike Realty Trust

a. Individual/Entity Name

Jeanne Fegan, as trustee

jeannefegan@gmail.com

b. Contact Name

c. Contact Email Address

3 Spruce Pond Road

d. Address 1 – Note: Enter Mailing Address of the Owner Contact

e. Address 2

Franklin

MA

02038

f. City/Town

g. State

h. Zip Code

B. UST Facility Information

a. Facility Name

2210 Providence Highway

b. Address 1 – Note: Enter Physical Street Address (No P.O. Boxes).

c. Address 2

Walpole

MA

02081

d. City/Town

e. State

f. Zip Code

Continue to Next Page ►



Massachusetts Department of Environmental Protection
Bureau of Air & Waste
Underground Storage Tank (UST) Program
UST1 – Cover Sheet/Certification

UST Facility _____

UST Facility ID # _____

Notes:

- The Owner must retain a copy of the registration until the UST system is removed or permanently closed in accordance with 310 CMR 80.43(2) or (3).

- Forms may be scanned and submitted electronically to dep.ust@state.ma.us or mailed to:

MassDEP
UST Program
P.O. Box 120-165
Boston, MA 02112-0165

C. Certification Statement

Important: A new Facility registration and new Owner registration must be certified only by the Owner. The Owner may designate the Operator to certify updated registration submittals.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

I am the Facility's ☒ Owner ☐ Operator

Jeanne Fegan, Trustee

1. Print Name

EMD Turnpike Realty Trust

2. Owner/Operator Entity Name

Jeanne Fegan

3. Signature

09/09/2020

4. Date Signed (MM/DD/YYYY)

5. Source of Signatory Authority (check only one box below):

If a Corporation or Non-Profit Corporation:

- a. ☐ President
- b. ☐ Secretary
- c. ☐ Treasurer
- d. ☐ Vice President (if authorized to bind the corporation)
- e. ☐ Employee of the Corporation (if authorized to bind the corporation)

If a Limited Liability Company (LLC):

- f. ☐ Person authorized to bind the company

If a Partnership:

- g. ☐ General Partner (if authorized to bind the partnership)

If a Sole Proprietorship:

- h. ☐ Proprietor

If a Municipality or Public Agency:

- i. ☐ Principal Executive Officer
- j. ☐ Ranking Elected Official (if authorized to bind the municipality or public agency)

If a Trust:

- k. ☒ Trustee or Other Person authorized to bind the trust



Massachusetts Department of Environmental Protection
Bureau of Air & Waste
Underground Storage Tank (UST) Program
UST6 – System Removal/Closure in Place

UST Facility Name _____

UST Facility ID # _____

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Notes:

• Make additional copies as needed.

• If you are replacing a removed tank with a new tank in the same location at the facility, you must register the new tank with MassDEP.

• For unregistered tanks, answer the questions in the appropriate sections. There will be no UST Facility Number assigned to tank systems found at unregistered facilities.

Check the appropriate action(s) below. Complete ONLY the appropriate section(s) and submit with the UST1-Cover Sheet/Certification Form.

- | | |
|--|--|
| <input type="checkbox"/> UST System Removal/Closure
Sections A.1. & B. | <input type="checkbox"/> UST System Permanent Closure in Place
Sections A.2. & B |
| <input checked="" type="checkbox"/> Removal of Unregistered UST System
Sections A.1., A.3. & B. | <input type="checkbox"/> Permanent Closure of Unregistered UST System
Sections A.2., A.3. & B |

A. UST System Removal/Closure

1. UST System Removal				
	UST-1 Tank ID	Tank ID	Tank ID	Tank ID
a. Date of tank removal:	08/21/2020 MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY
b. Were all regulated substances removed from the tank managed per applicable requirements?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
c. Was the tank system rendered inert per 310 CMR 80.47?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
d. Were all openings secured?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
e. Was all piping removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
f. Capacity of Tank:	750 Gallons	Gallons	Gallons	Gallons

2. UST System Permanent Closure in Place				
	Tank ID	Tank ID	Tank ID	Tank ID
a. Date of closure in place:	MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY
b. Has a registered professional civil or structural engineer determined that the tank cannot be removed without endangering the structural integrity of another UST system, structure, underground piping or underground utilities, per 310 CMR 80.43(3)(a)(1)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
c. Were all regulated substances removed from the tank managed per applicable requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
d. Was the tank system rendered inert per 310 CMR 80.47?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
e. Was the tank filled with appropriate material (e.g. concrete slurry mix or approved inert material)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
f. Capacity of Tank:	Gallons	Gallons	Gallons	Gallons



Massachusetts Department of Environmental Protection
Bureau of Air & Waste
Underground Storage Tank (UST) Program
UST6 – System Removal/Closure in Place

UST Facility Name

UST Facility ID #

A. UST Removal/Closure (continued)

Notes:

• Make additional copies as needed.

• Removal/closure of a **consumptive use** tank with a capacity of greater than 1,100 gallons must comply with the requirements of 310 CMR 80.43 & 80.47

3. Removal/Permanent Closure of Unregistered UST System				
	Tank 1	Tank 2	Tank 3	Tank 4
If unregistered, where was this tank located?	42° 6' 32.99"			
	Longitude	Longitude	Longitude	Longitude
	71° 14' 46.36"			
	Latitude	Latitude	Latitude	Latitude

B. Assessment of Release at Removal or Closure

	UST-1 Tank ID	Tank ID	Tank ID	Tank ID
Was an assessment conducted in accordance with 310 CMR 80.43(4) within 24 hours of the removal or before the closure in place was completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No